# **LED-Lit Push-Button Switches and Indicators**

PS5 Series

Slight clicking sensation. Crystal finish button design. LED-lit, compact, low-cost push-button switches and indicators.



- ■Excellent button design
- **■**Wide range of models
- ■Replaceable high-intensity LED lamp
- ■Built-in LED current-limiting resistor
- **■**Compact, space-saving
- **■**Diverse wiring methods
- ■Flexible panel layout Simple mounting
- ■UL/CSA certification

(excluding square 2-section LED-lit, 2-color single-section LED-lit, rectangular 2-color single-section LED-lit, square large dimpled button types).





# ■ Single-section I ED-lighting

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|                                                                                                                                                                                                                                | Rectangular fla<br>swit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | t push-button<br>ch and indicator     |                             |                  | + 👸 +                |             | See<br>(B)<br>on page      | See<br>(2)             |
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Note 1: Models sold as set model Nos. are delivered in a single package with the button, LED lamp, switch or indicator as a single set.

Note 2: Models sold as individual model Nos. are delivered in a bulk state with button, LED lamp, switch or indicator packaged individually.

# • 2-color Single-section LED-lighting

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Note 1: Models sold as set model Nos. are delivered in a single package with the button, LED lamp, switch or indicator as a single set.

Note 2: Models sold as individual model Nos. are delivered in a bulk state with button, LED lamp, switch or indicator packaged individually.

• 2-section LED-lighting (unit: mm)

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                                                                                                                                                                                                                                     | See page G-026      |             |              |                        |  |
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                                                                                                                                                                                                                                     | See page G-027      |             |              |                        |  |
| Rectangular                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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                                                                                                                                                                                                                                     | See page G-027      |             |              |                        |  |

Note 1: Models sold as set model Nos. are delivered in a single package with the button, LED lamp, switch or indicator as a single set.

Note 2: Models sold as individual model Nos. are delivered in a bulk state with button, LED lamp, switch or indicator packaged individually.

# PERFORMANCE

| Allowable operating        |                        | Momentary operation max. 120 operations/minute                                                                                                                                                    |
|----------------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| frequency                  | Mechanical             | Alternate operation max. 60 operations/minute                                                                                                                                                     |
|                            | Electrical             | Max. 20 operations/minute                                                                                                                                                                         |
| Insulation resistance      |                        | Min. 100MΩ (by 500Vdc megger)                                                                                                                                                                     |
| Dielectric strength        |                        | Between same pole terminals: 600Vac for 1 minute<br>Between different pole terminals: 2,000Vac for 1 minute<br>Between conducting metal part and non-conducting metal part: 2,000Vac for 1 minute |
| Vibration resistance       | Malfunction            | Amplitude 1.5mm, 10 to 55Hz                                                                                                                                                                       |
| Impact resistance          | Malfunction            | 200m/s²                                                                                                                                                                                           |
| Life                       |                        | Momentary operation type: Min. 1 million operations                                                                                                                                               |
|                            | Malfunction Mechanical | Alternate operation: Min. 100,000 cycles                                                                                                                                                          |
|                            | Electrical             | Silver contact: Min. 100,000 operations (125Vac-2A resistive load)<br>Min. 50,000 operations (125Vac-3A resistive load)                                                                           |
|                            |                        | Gold cross contact: Min. 100,000 operations (30Vdc-0.1A resistive load)                                                                                                                           |
|                            |                        | Silver contact: Max. 30mΩ (6 to 8Vdc-1A voltage drop method)                                                                                                                                      |
| Initial contact resistance | 9                      | Gold cross contact: Max. 50mΩ (6 to 8Vdc-0.1A voltage drop method)                                                                                                                                |
| Operating temperature      | range                  | −20 to 40°C                                                                                                                                                                                       |
| Operating humidity rang    | je –                   | Max. 85%RH                                                                                                                                                                                        |

# CHARACTERISTICS, ETC.

|               | llem                          | Momentary operation                          | Alternate operation            |  |  |  |  |  |
|---------------|-------------------------------|----------------------------------------------|--------------------------------|--|--|--|--|--|
| Operation for | <b>⊅e</b>                     | Max. 2.94N                                   | Max. 3.92N                     |  |  |  |  |  |
| Button stroke |                               | Approx                                       | c. 3mm                         |  |  |  |  |  |
| Mounting pan  | el plate thickness            | 1 to 3                                       | .5mm                           |  |  |  |  |  |
| Materials     | Button                        | Polycarbonate resin (achromatic transparent) |                                |  |  |  |  |  |
|               | Color plate                   | Acrylic resin (red, yellow, gree             | en, orange, blue, milky white) |  |  |  |  |  |
|               | Plunger                       | Polyester re                                 | esin (white)                   |  |  |  |  |  |
|               | Switch, indicator and housing | Polyester resir                              | ı (black, gray)                |  |  |  |  |  |
|               | Bartier                       | Polyester resir                              | (black, gray)                  |  |  |  |  |  |

### RATING

#### 1. Contact rating

#### Normal load (silver contact)

| Rated | energizing current (, | A) | 3              |     |     |     |  |  |  |
|-------|-----------------------|----|----------------|-----|-----|-----|--|--|--|
| Rated | voltage (             | V) | 125Vac, 125Vdc |     |     |     |  |  |  |
| Opera | ting voltage (        | V) | 12             | 24  | 48  | 125 |  |  |  |
| AC    | Resistive load (      | A) | 3              | 3   | 3   | 3   |  |  |  |
|       | Inductive load* (     | A) | 2              | 2   | 1.5 | 1   |  |  |  |
|       | Inductive load* * (   | A) | 2              | 1.5 | 1   | 0.7 |  |  |  |
| DC    | Resistive load (      | A) | 2              | 1   | 0.5 | 0.4 |  |  |  |
|       | Inductive load# (/    | A) | 1              | 0.5 | 0.3 | 0.2 |  |  |  |
|       | Inductive load## (/   | A) | 0.5            | 0.3 | 0.1 | 0.1 |  |  |  |

Note 1: Steady current values are indicated for above values.

Note 2: \*: Inductive load value at power-factor of 0.6, \* \*: Inductive

load value at power-factor of 0.4

Note 3: #: Inductive load value at time constant of 7ms, ##: Inductive load value at time constant of 40ms,

#### Low current load (gold cross contact)

| Rated energizing current | (A) |              |     | 0.1 |     |     |  |  |  |  |
|--------------------------|-----|--------------|-----|-----|-----|-----|--|--|--|--|
| Rated voltage            | (V) | 125Vac,30Vdc |     |     |     |     |  |  |  |  |
| Operating voltage        | (V) | 5            | 12  | 24  | 30  | 125 |  |  |  |  |
| AC resistive load        | (A) | 0.1          | 0.1 | 0.1 | 0.1 | 0.1 |  |  |  |  |
| DC resistive load        | (A) | 0.1          | 0.1 | 0.1 | 0.1 | _   |  |  |  |  |

Note 1: Steady current values are indicated for above values. Note 2: The lower limit of use is 5V-5mA

#### 2 LED lamp rating

#### EN standard units

#### · Rated operating voltage

Silver contact: 125Vac or 30Vdc Gold contact: 125Vac or 30Vdc

#### · Application category

| Silver contact     | Gold contact      |
|--------------------|-------------------|
| AC-15 0.75A-125Vac | AC-12 0.1A-125Vac |
| DC-12 0.4A-30Vdc   | DC-12 0.1A-30Vdc  |

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Note 1: The rated current of section types is the current per single lighting (1/2 that of a single-section lighting area). The rated current is doubled when two lamps are light simultaneously.

Note 2: In the current consumption indication, DD/DD/DD corresponds to the current of square single-section LED-lit/rectangular single-section LED-lit/rectangular single-section lateral split 2-section LED-lit lamps.

# **SPECIFICATIONS**

# • Flat push-button

| Push-button unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | L                                     | ED-lighting method                                 |                                                                           | Sing                    | le-sectio                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | n LED-lig                    | nting                                  |             | <b>2</b> -cc             | olor single-sec  | 4444444444444                         | 119354112011120 |
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| TOTAL CONTROL OF THE                                                                                                                                                                                                                                                                                  | Indi                                  | vidual Cat. Listing                                | PS                                                                        | 85A-D[][                | <b>Z</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | PS5A-E <u></u> Z             |                                        | PS5A-DWZ    |                          | PS5A-EWZ-004     |                                       |                 |
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| A CONTRACTOR OF THE CONTRACTOR                                                                                                                                                                                                                                                                                 | Nun<br>lam                            | nber of LED<br>ps                                  | 1 lamp (4 chips)                                                          |                         | 2 lamps<br>(4 chips × 2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                              | 1 lamp<br>(2 chips × 2)                |             | 2 lamps<br>(4 chips × 2) |                  |                                       |                 |
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Note: Contact your agent separately for details on square/rectangular type 2-color single-section LED-lit 24Vdc types.

# • Flat push-button (continued)

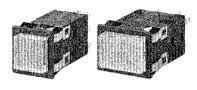
| Push-button unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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Note: Contact your agent separately for details on square type 2-section LED-lit 24Vdc types.

# • Dimple push-button

| Push-button unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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# Single-section LED-lit (square flat, rectangular flat) Type

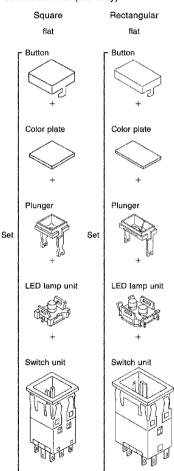


- Single-section LED-lit, flat push-buttons are available under the following set model Nos. and individual model Nos. Order push-button using these model Nos.
- Only individual model Nos. are available for single-section LED-lit, dimple pushbuttons.
  - Set model No.: These push-buttons are shipped with each of standard specification push-button, LED lamp and switch unit packaged as an individual set.
- Individual model No.: These push-buttons are shipped with each individual specification push-button, LED lamp and switch unit packaged individually.

External dimensions →See (1) (square)/(2) (rectangular) on page G-030.

Panel cutout dimensions →See (A) (square)/(B) (rectangular) on page G-033.

# • Set Model No. (flat only)



Set Model No. Model selection guide IIIIVV Example: PS5D-DSWZ24

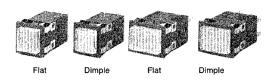
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| Basic<br>model<br>No. | Switch<br>function | Terminal<br>shape,<br>Bezel color | Display<br>color | LED lamp<br>terminal<br>voltage |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Description                          |                    |
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|                       | D                  |                                   |                  |                                 | Alternate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2×SPDT                               | Silver             |
|                       | E                  |                                   |                  |                                 | Momentary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1×SPDT                               | Gold cross         |
|                       | F                  |                                   |                  |                                 | Alternate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1×SPDT                               | Gold cross         |
|                       | G                  |                                   |                  |                                 | Momentary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2×SPDT                               | Gold cross         |
|                       | н                  |                                   |                  |                                 | Alternate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2×SPDT                               | Gold cross         |
|                       | х                  |                                   |                  |                                 | Indicator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | _                                    | _                  |
|                       |                    |                                   |                  |                                 | Termina                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | l shape                              | Bezel color        |
|                       |                    | s                                 |                  |                                 | Solder and<br>terminal co                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                      | Black              |
|                       |                    | P                                 |                  |                                 | PCB te                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | rminal                               | Black              |
|                       |                    | L                                 |                  |                                 | Solder and<br>terminal co                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                      | Gray               |
|                       |                    | М                                 |                  |                                 | PCB te                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | rminal                               | Gray               |
|                       |                    |                                   |                  |                                 | Color plate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | LED lamp                             | When lit           |
|                       |                    |                                   | RZ               |                                 | Red                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Red                                  | Red                |
|                       |                    |                                   | PZ               |                                 | Milky white                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Red                                  | Pink               |
|                       |                    |                                   | wz               |                                 | Milky white                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Amber                                | Light amber        |
|                       |                    |                                   | DZ               |                                 | Orange Amber                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                      | Orange             |
|                       |                    |                                   | YZ               |                                 | Yellow Green                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                      | Yellowish<br>green |
|                       |                    |                                   | GZ               |                                 | Green Green                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                      | Green              |
|                       |                    |                                   | NZ               |                                 | Milky white                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Green                                | Lemon yellow       |
|                       |                    |                                   |                  | 24                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 24Vdc±5%                             | •                  |

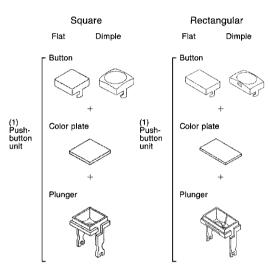
Note: Contact your agent separately for details on set model No. 5Vdc and 12Vdc specifications.

# Single-section LED-lit (square flat, square dimple, rectangular flat, rectangular dimple) Type

### • Individual model No. (for both flat/dimple)

Individual model No.: Nos. are available by individual units (1), (2) and (3) below.



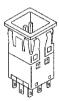


(2) LED unit

(2) LED unit



(3) Switch unit



(3) Switch unit

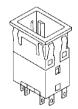


Table 1. Color plate/LED lamp display color combinations

| thon         | Color when lit    | Dark<br>pink | Light<br>green | Light<br>orange | Light<br>amber | Light<br>pink | Light<br>lemon<br>yellow |  |
|--------------|-------------------|--------------|----------------|-----------------|----------------|---------------|--------------------------|--|
| 7            | Color when out    | Milky white  |                |                 |                |               |                          |  |
| 9            | Color plate color | Red          | Green          | Orange          | Milky          | white         |                          |  |
| Combinations | LED lamp color    | Red          | Green          | Amber           | Amber          | Red           | Green                    |  |
| 5            | Button coler      | Milky white  |                |                 |                |               |                          |  |

| Liveut      | Colar when lit 🚻  | Red | Yeliowish<br>green | Green | Orange | Blue      | Amber   | Pink  | Lemon<br>yellow | Light<br>blue |
|-------------|-------------------|-----|--------------------|-------|--------|-----------|---------|-------|-----------------|---------------|
|             | Color when out    | Red | Yellow             | Green | Orange | Blue      |         | Milky | white           |               |
| 8           | Golor plate color | Red | Yellow             | Green | Orange | Blue      |         | Milky | white           |               |
| ombinations | LED lamp color    | Red | Green              | Green | Amber  | Blue      | Amber   | Red   | Green           | Blue          |
| 8           | Batton color      |     |                    |       | Achrom | atic tran | enarent |       |                 |               |

Note: The display color is referenced to a peripheral LED-lit intensity of 1,000lx. When the LED-lit intensity changes, the hue when lit also changes.

#### (1) Push-button unit

Model selection guide I II Example: PS5A-DRZ

| I<br>Basic<br>model No. | II<br>Color<br>plate |             | Description                                                       |
|-------------------------|----------------------|-------------|-------------------------------------------------------------------|
| PS5A-D                  |                      |             | Flat push-button type, achromatic transparent with gloss finish   |
| PS5A-D1                 |                      | Square      | Dimple push-button type, achromatic transparent with gloss finish |
| PS5A-D2                 |                      |             | Flat push-button type, milky white with gloss finish              |
| PS5A-E                  |                      | Dtt         | Flat push-button type, achromatic transparent with gloss finish   |
| PS5A-E1                 |                      | Rectangular | Dimple push-button type, achromatic transparent with gloss finish |
|                         | RZ                   | Red         |                                                                   |
|                         | YZ                   | Yellow      |                                                                   |
| See Table 1.            | GZ                   | Green       |                                                                   |
| Jes rable I.            | WZ                   | Milky white |                                                                   |
|                         | DZ                   | Orange      |                                                                   |
|                         | BZ                   | Blue        | Only PS5A-D and PS5A-E at I above can be selected.                |

#### (2) LED lamp unit

Model selection guide I II III Example: PS5L-DRZ12

| I                  | li ii ii                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1                               | The state of the s |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Basic<br>model No. | LED lamp<br>color                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | LED lamp<br>terminal<br>voltage | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| PS5L-D             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                 | LED lamp unit for square type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| PS5L-E             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                 | LED lamp unit for rectangular type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| r                  | RZ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                 | Red                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| See Table 1.       | AZ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                 | Amber                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| See Table 1.       | GZ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                 | Green                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                    | BZ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                 | Blue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| •                  | No. 10 To 10 | 05                              | 5Vdc±5%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 12                              | 12Vdc±5%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 24                              | 24Vdc±5%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

# (3) Switch unit

Model selection guide I II II IV Example: PS5D-AS

| Model                   | ,0,000,00                | galac                                       |                            | III IV LAGAINE          |                     |                     |
|-------------------------|--------------------------|---------------------------------------------|----------------------------|-------------------------|---------------------|---------------------|
| I<br>Basic<br>model No. | II<br>Switch<br>function | III<br>Terminal<br>shape.<br>Bezel<br>color | IV<br>External<br>standard |                         | Description         |                     |
| PS5D-                   |                          |                                             |                            | Square switch           | n unit, indicato    | r                   |
| PS5E-                   |                          |                                             |                            | Rectangular :           | switch unit, ind    | icator              |
|                         |                          |                                             |                            | Operation               | Output<br>circuit   | Contact<br>material |
|                         | А                        |                                             |                            | Momentary               | 1×PSDT              | Silver              |
|                         | В                        |                                             |                            | Alternate               | 1×PSDT              | Silver              |
|                         | С                        |                                             |                            | Momentary               | 2×PSDT              | Silver              |
|                         | D                        |                                             |                            | Alternate               | 2×PSDT              | Silver              |
|                         | E                        |                                             |                            | Momentary               | 1×PSDT              | Gold cross          |
|                         | F                        |                                             |                            | Alternate               | 1×PSDT              | Gold cross          |
|                         | G                        |                                             |                            | Momentary               | 2×PSDT              | Gold cross          |
|                         | Н                        |                                             |                            | Alternate               | 2×PSDT              | Gold cross          |
|                         | Х                        |                                             |                            | Indicator               | -                   | -                   |
|                         |                          |                                             |                            | Terminal s              | hape Note           | Bezel color         |
| on Light<br>w blue      |                          | s                                           |                            | Solder ar<br>terminal o |                     | Black               |
| w blue                  |                          | P                                           |                            | PCB te                  | erminal             | Black               |
| en Blue                 |                          | L                                           |                            | Solder ar<br>terminal o | nd #110<br>combined | Gray                |
|                         |                          | М                                           |                            | PCB te                  | erminal             | Gray                |

Note: When connecting to connector **PS5H-**\_\_\_\_, select the Solder and #110 terminal combined

EN (IEC) standard compatible products

# 2-color Single-section LED-lit (square flat) Type



Flat

• Individual model No.

Square 2-color single-section



(1) Pushbutton



Plunger

(2) LED lamp unit



(3) Switch unit



Table 3. Color plate/LED lamp display color combinations

| Court | Calor when its    | Amber       | Pink        | Lemon<br>yellow |  |  |
|-------|-------------------|-------------|-------------|-----------------|--|--|
| 19    | Color when out    | Milky white |             |                 |  |  |
| 8     | Color plate color | N/          | lilky whi   | te              |  |  |
| 1     | LED lamp color    | Amber       | Red         | Green           |  |  |
| 18    | Button color      | Achror      | matic trans | parent          |  |  |

Note: The display color is referenced to a peripheral LED-lit intensity of 1,000lx. When the LED-lit intensity changes, the hue when lit also changes.

#### Only individual model Nos. are available for 2-color single-section LED-lit types.

Individual model No.: Nos. are available by individual units (1), (2) and (3) below. Parts are shipped packaged individually in units.

External dimensions →See (4) (standard flat) on page G-030. Panel cutout dimensions →See (A) on page G-033.

#### (1) Push-button unit

Model selection guide I II Example: PS5A-DWZ

| J<br>Basic<br>model No. | II<br>Color<br>plate | Description                                                                                            |
|-------------------------|----------------------|--------------------------------------------------------------------------------------------------------|
| PS5A-D                  |                      | Square 2-color single-section standard flat push-button type, achromatic transparent with gloss finish |
| See Table 3. [          | wz                   | Milky white                                                                                            |

Note: Contact your agent for the following buttons: Square milky white flat button Square compact dimple button, gloss finish

Square compact dimple button, gloss finish Square large dimple button, gloss finish Square large dimple button, no gloss finish

#### (2) LED lamp unit

Model selection guide I II III Example: PS5L-KRG05

| Basic<br>model No. | II<br>LED lamp<br>color | III<br>LED tamp<br>terminal<br>voltage | CONTRACTOR OF THE CONTRACTOR O | iption                    |  |  |  |
|--------------------|-------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--|--|--|
| PS5L-K             |                         |                                        | Square standard button 2-color single-<br>section LED lamp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                           |  |  |  |
|                    |                         |                                        | When driven across L+/L1-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | When driven across L+/L2- |  |  |  |
| 1                  | RA                      |                                        | Red                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Amber                     |  |  |  |
| See Table 3.       | RG                      |                                        | Red                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Green                     |  |  |  |
|                    | AG                      |                                        | Amber                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Green                     |  |  |  |
| •                  |                         | 05                                     | 5Vdc±5%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                           |  |  |  |
|                    |                         | 12                                     | 12Vdc±5%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                           |  |  |  |

Note: When the LED lamp drive voltage is 24Vdc, an external resistor is connected for use.

(For details, see page G-037)

# «External resistor values»

| Voltage of LED lamp in use | External resistor values | Remarks         |
|----------------------------|--------------------------|-----------------|
| 5Vdc                       | 1,500Ω ½W                | Connected to L+ |

#### (3) Switch unit

Model selection guide I II III Example: PS5J-ES

| i<br>Basic<br>model No. | II<br>Switch<br>function | III<br>Terminal<br>shape<br>Bezel color | AND THE STATE OF T | Description              | THE CONTRACT OF THE CONTRACT O |
|-------------------------|--------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PS5J-                   |                          |                                         | Square standa<br>section switch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | rd button 2-colo<br>unit | r single-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                         |                          |                                         | Operation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Output circuit           | Contact material                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                         | Α                        |                                         | Momentary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1×SPDT                   | Silver                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                         | В                        |                                         | Alternate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1×SPDT                   | Silver                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                         | ¢                        |                                         | Momentary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2×SPDT                   | Silver                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                         | D                        |                                         | Alternate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2×SPDT                   | Silver                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                         | E                        |                                         | Momentary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1 × SPDT                 | Gold cross                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                         | F                        |                                         | Alternate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1×SPDT                   | Gold cross                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                         | G                        |                                         | Momentary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2×SPDT                   | Gold cross                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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|                         |                          |                                         | Terminal s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                          | Bezel color                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                         |                          | s                                       | Solder and #110 tab<br>terminal combined                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          | Black                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                         |                          | P                                       | PCB to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Black                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                         |                          | L                                       | Solder and terminal of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Gray                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                         |                          | M                                       | PCB te                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | erminal                  | Gray                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

Note: Connector PS5H-S cannot be used.

# 2-color Single-section LED-lit (rectangular flat) Type



Flat

 Only individual model Nos. are available for 2-color single-section LED-lit types.

Individual model No.: Nos. are available by individual units (1), (2) and (3) below. Parts are shipped packaged individually in units.

External dimensions →See (2) on page F-36.
Panel cutout dimensions →See (B) on page F-39.

#### Individual model No.

#### Rectangular

(1)
Push-button
unit

Button

Color plate

Plunger

#### (2) LED lamp unit



#### (3) Switch unit

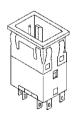


Table 3. Color plate/LED lamp display color combinations

| tiont | Color when lit    | Amber                  | Pink | Lemon<br>yellow |  |  |
|-------|-------------------|------------------------|------|-----------------|--|--|
|       | Color when out    | Milky white            |      |                 |  |  |
| 82    | Color plate color | Milky white            |      |                 |  |  |
| 重     | LED lamp color    | Amber                  | Red  | Green           |  |  |
| 3     | Button color      | Achromatic transparent |      |                 |  |  |

Note: The display color is referenced to a peripheral LED-lit intensity of 1,000lx. When the LED-lit intensity changes, the hue when lit also changes.

#### (1) Push-button unit

Model selection guide IIII Example: PS5A-EWZ-004

| I<br>Basic<br>model No | II<br>Color<br>plate | III<br>LED-<br>lighting<br>method | TO THE CONTRACTOR OF THE CONTR | Description                                                   |  |  |
|------------------------|----------------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|--|--|
| PS5A-E                 |                      |                                   | Rectangular                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Flat push-button, achromatic<br>transparent with gloss finish |  |  |
| See Table 3. [         | WZ                   |                                   | Mitky whit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | e                                                             |  |  |
|                        |                      | -004                              | Rectangular 2-color single-section LED-lit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                               |  |  |

# (2) LED lamp unit

Model selection guide I I I I Example: PS5L-ERG05-WK

| I<br>Basic<br>model No. | II<br>LED<br>lamp<br>color | III<br>LED lamp<br>terminal<br>voltage | LED-<br>lighting<br>method | Description                                                     |
|-------------------------|----------------------------|----------------------------------------|----------------------------|-----------------------------------------------------------------|
| PS5L-E                  | **                         |                                        |                            | Rectangular LED lamp/2-lamp system                              |
|                         |                            |                                        |                            | 2-lamp system (color changed by switching terminal)             |
| rſ                      | RG                         |                                        |                            | Red, green                                                      |
| See Table 3.            | RA                         |                                        |                            | Amber, red                                                      |
| [[                      | AG                         |                                        |                            | Amber, green                                                    |
|                         |                            | 00                                     |                            | Without built-in current limiting resistor (V <sub>F</sub> ≒4V) |
|                         |                            | 05                                     |                            | 5Vdc±5%                                                         |
|                         |                            | 12                                     |                            | 12Vdc±5%                                                        |
|                         |                            |                                        | wĸ                         | 2-color single-section LED-lit type lamp unit                   |

#### (3) Switch unit

Model selection guide I II III Example: PS5F-AS

| I<br>Basic<br>model No. | II<br>Switch<br>function | III<br>Terminal<br>shape.<br>Bezel color | The control of the co | Description                     | The control of the co |
|-------------------------|--------------------------|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PS5F-                   |                          | OVERMITE.                                | Rectangular switch<br>(rectangular longitu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                 | Both usable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| PS5G-                   |                          |                                          | Rectangular swit<br>(rectangular late                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ch unit<br>ral split joint use) | Both usable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                         |                          |                                          | Operation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Output circuit                  | Contact material                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                         | A                        |                                          | Momentary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1 × SPDT                        | Silver                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                         | 8                        |                                          | Alternate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1×SPDT                          | Silver                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                         | С                        |                                          | Momentary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2×SPDT                          | Silver                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                         | D                        |                                          | Alternate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2×SPDT                          | Silver                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                         | E                        |                                          | Momentary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1 × SPDT                        | Gold cross                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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|                         | Н                        |                                          | Alternate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2×SPDT                          | Gold cross                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                         | Х                        |                                          | Indicator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | _                               | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                         |                          |                                          | Terminal s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | shape Note                      | Bezel color                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                         |                          | s                                        | Solder and<br>terminal of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | d #110 tab<br>ombined           | Black                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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|                         |                          | M                                        | PCB to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | erminal                         | Gray                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

Note: When connecting to connector PS5H-R□, select the Solder and #110 tab terminal combined



Flat

 Only individual model Nos. are available for 2-color single-section LED-lit types.

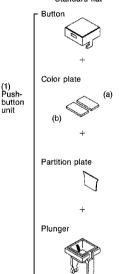
Individual model No.: Nos. are available by individual units (1), (2) and (3) below. Parts are shipped packaged individually in units.

External dimensions →See (4) (standard flat) on page G-030. Panel cutout dimensions →See (A) on page G-033.

#### • Individual model

Square 2-section

Standard flat



(1) Push-button unit

Model selection guide I II Example: PS5A-JRG

| Basic<br>model No. | II<br>Color plate<br>2 colors<br>single<br>section | And the control of th | A CONTRACTOR OF THE CONTRACTOR | Description |             | A CONTRACTOR OF THE CONTRACTOR |  |
|--------------------|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------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| PS5A-J             |                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Square 2-section standard flat push-button, achromatic transparent with gloss finish                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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|                    | (b) (a)                                            | Red                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| ſ                  | Red                                                | RR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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|                    | Yellow                                             | RY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| See Table 2.       | Green                                              | RG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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|                    | Milky white                                        | RW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| Ĺ                  | Orange                                             | RD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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                                                                                                                                                                        | GD          | WD          | ΦĐ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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Note: Contact your agent for the following buttons: Square compact dimple button, gloss finish Square large dimple button, gloss finish Square large dimple button, no gloss finish

# (2) LED lamp unit

Model selection guide I II III Example: PS5L-JRG05

| Basic<br>model No. | LED<br>lamp<br>color | II<br>LED lamp<br>terminal<br>voltage |                       | The state of the s |
|--------------------|----------------------|---------------------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PS5L-J             |                      |                                       | Square standard butto | n 2-section LED lamp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                    | -                    |                                       | LED lamp (a)          | LED lamp (b)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                    | RR                   |                                       | Red                   | Red                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 11                 | RA                   |                                       | Red                   | Amber                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| See Table 2.       | RG                   |                                       | Red                   | Green                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| See rable 2.       | AG                   |                                       | Amber                 | Green                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 11                 | AA                   |                                       | Amber                 | Amber                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <u>ا</u> ا         | GG                   |                                       | Green                 | Green                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| -                  |                      | 05                                    | 5Vdc±5%               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                    |                      | 12                                    | 12Vdc±5%              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

Note 1: Use LED lamp reversed color type (example: reversed type for  $\frac{|R|}{|G|}$  becomes  $\frac{|G|}{|R|}$ ) with the switch unit body rotated by 180°.

Note 2: When the LED lamp drive voltage is 24Vdc, an external resistor is connected for use. (For details, see page G-037)

#### «External resistor values»

| Voltage of LED lamp in use | External resistor values | Remarks                          | ı |
|----------------------------|--------------------------|----------------------------------|---|
| 5Vdc                       | 1,500Ω ½W                | Connected to each of L1- and L2- |   |

#### (3) Switch unit

Model selection guide I II III Example: PS5J-ES

| 1                  | П                  | щ                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       |                  |
|--------------------|--------------------|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------|
| Basic<br>model No. | Switch<br>function | Terminal<br>shape,<br>Bezel color | TOTAL CONTROL OF THE | Description           |                  |
| PS5J-              |                    |                                   | Square standa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | rd button 2-sect      | ion Switch unit  |
|                    | -                  |                                   | Operation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Output circuit        | Contact material |
|                    | Α                  |                                   | Momentary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1 × SPDT              | Silver           |
|                    | В                  |                                   | Alternate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1 × SPDT              | Silver           |
|                    | С                  |                                   | Momentary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2×SPDT                | Silver           |
|                    | D                  |                                   | Alternate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2×SPDT                | Silver           |
|                    | E                  |                                   | Momentary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1×SPDT                | Gold cross       |
|                    | F                  |                                   | Alternate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1 × SPDT              | Gold cross       |
|                    | G                  |                                   | Momentary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2×SPDT                | Gold cross       |
|                    | Н                  |                                   | Alternate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2×SPDT                | Gold cross       |
|                    | Х                  |                                   | Indicator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | _                     | _                |
|                    |                    |                                   | Terminal s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       | Bezel color      |
|                    |                    | s                                 | Solder and terminal co                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | d #110 tab<br>ombined | Black            |
|                    |                    | P                                 | PCB terminal Black                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |                  |
|                    |                    | L                                 | Soider and #110 tab terminal combined Gray                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                  |
|                    |                    | M                                 | PCB te                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | erminal               | Gray             |

Note: Connector PS5H-S cannot be used.

(2) LED lamp unit



#### (3) Switch unit



Table 2. Color plate/LED lamp display color combinations

| Nout       | Calar when lit    | Red                    | Yellowish<br>green | Green | Orange | Amber | Pink       | Lemon<br>yellow |
|------------|-------------------|------------------------|--------------------|-------|--------|-------|------------|-----------------|
| 120        | Color when out    | Red                    | Yellow             | Green | Orange | ٨     | lilky whit | ө               |
| 8          | Color plate color | Red                    | Yellow             | Green | Orange | V     | filky whit | е               |
| omenations | LED lamp color    | Red                    | Green              | Green | Amber  | Amber | Red        | Green           |
| 18         | Button color      | Achromatic transparent |                    |       |        |       |            |                 |

Note: The display color is referenced to a peripheral LED-lit intensity of 1,000lx. When the LED-lit intensity changes, the hue when lit also changes.

# 2-section LED-lit (lateral/longitudinal split, rectangular flat) Type





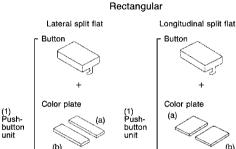
Lateral split Longitudinal split

• Only individual model Nos. are available for 2-section LED-lit types. Individual model No.: Nos. are available by individual units (1), (2) and (3) below. Parts are shipped packaged individually in units.

External dimensions ⇒See (2) on page G-030.

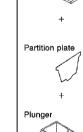
Panel cutout dimensions ⇒See (B) on page G-033.

#### Individual model No.









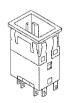
(2) LED lamp unit







(3) Switch unit



(3) Switch unit



Table 2. Color plate/LED lamp display color combinations

| Hout         | Color when lif    | Red                    | Yeliowish<br>green | Green | Orange | Amber | Pink        | Lernon<br>yellow |
|--------------|-------------------|------------------------|--------------------|-------|--------|-------|-------------|------------------|
| P            | Color when out    | Red                    | Yellow             | Green | Orange | N.    | filky white | е                |
| 8            | Color plate color | Red                    | Yellow             | Green | Orange | N     | filky whit  | e                |
| Combinations | LED lamp color    | Red                    | Green              | Green | Amber  | Amber | Red         | Green            |
| 8            | Betton color      | Achromatic transparent |                    |       |        |       |             |                  |

Note: The display color is referenced to a peripheral LED-lit intensity of 1,000lx. When the LED-lit intensity changes, the hue when lit also changes.

#### (1) Push-button unit

Model selection guide I I Example: PS5A-FRW H Color plate 2 colors model No Lateral split flat push-button, transparent with gloss finish PS5A-F Longitudinal split, flat push-button, 
achromatic transparent with gloss finish PS5A-G (a) (b) Red Yellow Green Milky white Orange RR Yellow RY VG YW YD See Table 2. Green RG YG GG GW GD Milky white RW ΥW GW ww WD Orange RD ΥD GD WD DD

#### (2) LED lamp unit

Model selection guide I II III IV Example: PS5L-FAA24

| 1                  | П                 | Щ                                                            | N                      |                                           |                      |
|--------------------|-------------------|--------------------------------------------------------------|------------------------|-------------------------------------------|----------------------|
| Basic<br>model No. | LED lamp<br>color | LED lamp<br>terminal<br>voltage                              | LED lamp<br>brilllance | Description                               |                      |
| PS5L-F             |                   |                                                              |                        | Lateral split LED la                      | mp/2-lamp system     |
| PS5L-G             |                   |                                                              |                        | Longitudinal split LE                     | D lamp/2-lamp system |
|                    |                   |                                                              |                        | LED lamp<br>(a)                           | LED lamp<br>(b)      |
|                    | RR                |                                                              |                        | Red                                       | Red                  |
|                    | RA                |                                                              |                        | Red                                       | Amber                |
| See Table 2.       | RG                |                                                              |                        | Red                                       | Green                |
| See Table 2.       | AG                |                                                              |                        | Amber                                     | Green                |
|                    | AA                |                                                              |                        | Amber                                     | Amber                |
| L                  | GG                |                                                              |                        | Green                                     | Green                |
| -                  |                   | 05                                                           |                        | 5Vdc±5%                                   |                      |
|                    |                   | 12                                                           |                        | 12Vdc±5%                                  |                      |
|                    |                   | 24                                                           |                        | 24Vdc±5%                                  |                      |
|                    |                   | PS5L-G (longitudinal split) is blank or need not be filled i |                        | idinal split) is left<br>ot be filled in. |                      |

#### (3) Switch unit

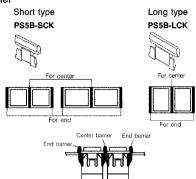
Model selection guide I II III Example: PS5F-HP

| I<br>Basic<br>model No. | II<br>Switch<br>function | III<br>Terminal<br>shape,<br>Bezel color | The control of the co | Description      | Control of the Contro |  |
|-------------------------|--------------------------|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| PS5F-                   |                          |                                          | Lateral split sw                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | itch unit        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| PS5G-                   |                          |                                          | Longitudinal sp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | olit switch unit |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
|                         |                          |                                          | Operation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Output circuit   | Contact material                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
|                         | A                        |                                          | Momentary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1×SPDT           | Silver                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
|                         | В                        |                                          | Alternate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1×SPDT           | Silver                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
|                         | С                        |                                          | Momentary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2×SPDT           | Silver                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
|                         | D                        |                                          | Alternate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2×SPDT           | Silver                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
|                         | E                        |                                          | Momentary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1×SPDT           | Gold cross                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |
|                         | F                        |                                          | Alternate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1 × SPDT         | Gold cross                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |
|                         | G                        |                                          | Momentary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2×SPDT           | Gold cross                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |
|                         | Н                        |                                          | Alternate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2×SPDT           | Gold cross                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |
|                         | Х                        |                                          | Indicator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | _                | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
|                         |                          | /                                        | Terminal s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | shape Note       | Bezel color                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
|                         |                          | s                                        | Solder and<br>terminal co                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                  | Black                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
|                         |                          | P                                        | PCB te                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | erminal          | Black                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
|                         |                          | L                                        | Solder and #110 tab Gray                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
|                         |                          | М                                        | PCB te                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | erminal          | Gray                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |

Note: When connecting to connector PS5H-R\_, select the Solder and #110 tab terminal combined

# ACCESSORIES (sold separately)

#### 1. Barrier



#### 2. Switch guard

Simple type

(stays upright when released)





Spring-back type (returns when released)





3. Connector (For main body with #110 solder terminals.) PCB terminal

Solder and #110 tab terminal combined PS5H-SS PS5H-RS





PS5H-SP









Wire-wrap terminal

 Barriers are used as partitions for preventing erroneous operation on adjacent push-button switches and for grouping switches and indicators.

Two types of barriers are available, short and long, and barriers for ends and center are available for each.

| Туре           | Color | Catalog listing | Caution                                    |
|----------------|-------|-----------------|--------------------------------------------|
| Short barrier. | Black | PS5B-SCK        |                                            |
| center         | Gray  | PS5B-SCL        | - Joint use with the matrix                |
| Short barrier. | Black | PS5B-SEK        | mounting fixture is not                    |
| end            | Gray  | PS5B-SEL        | possible.                                  |
| Long barrier,  | Black | PS5B-LCK        | - Cannot be used on large (flat or dimple) |
| center         | Gray  | PS5B-LCL        | button type switches.                      |
| Long barrier,  | Black | PS5B-LEK        | . ,,                                       |
| end            | Gray  | PS5B-LEL        |                                            |

· Switch guards are used for protecting push-buttons and for preventing erroneous operation. Two types are available, simple and spring-back.

Note: Both types cannot be used on large (flat or dimple) button type switches.

| Type                            | Catalog listing | Caution                                                               |
|---------------------------------|-----------------|-----------------------------------------------------------------------|
| Square simple type              | PS5H-SG         | Joint use with the barrier or matrix mounting fixture is              |
| Rectangular simple type         | PS5H-RG         | not possible                                                          |
| Square<br>spring-back type      | PS5H-SG1        | Joint use with the barrier is possible.     Joint use with the matrix |
| Rectangular<br>spring-back type | PS5H-RG1        | mounting fixture is not possible.                                     |

Connectors are used plugged into the base of switch units. Three terminal shapes are available, soldered terminal, PCB terminal and wire-wrap terminal.

| Square con                               | rector          | Rectangular co                        | nnector         |
|------------------------------------------|-----------------|---------------------------------------|-----------------|
| Terminal shape                           | Catalog listing | Terminal shape                        | Catalog listing |
| Solder and #110 tab<br>terminal combined | PS5H-SS         | Solder and #110 tab terminal combined | PS5H-RS         |
| PCB terminal                             | PS5H-SP         | PCB terminal                          | PS5H-RP         |
| Wire-wrap terminal                       | PS5H-SW         | Wire-wrap terminal                    | PS5H-RW         |

Note: Joint use with the matrix mounting fixture is not possible.

#### 4. Matrix mounting fixture



. The matrix mounting fixture is used for high-density (vertical and horizontal) gang mounting of push-button switches. All you need to is snap-in push-button switches into the matrix.

Note: Joint use with the barrier, connector or switch guard is not possible.

# Model selection guide I I I I Example: PS5M-S08A

|                    | П                             | Ú              | İγ                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   | TOTAL CONTROL OF THE PROPERTY |
|--------------------|-------------------------------|----------------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Basic<br>model No. | Number of<br>mounted<br>units | Plate<br>color | Panel<br>plate<br>thickness | The control of the co | Description       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| PS5M-S             |                               |                |                             | For square                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | switch unit       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| PS5M-R             |                               |                |                             | For rectang                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | gular switch unit | (horizontal)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                    | 01                            |                |                             | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                   | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                    | 02                            |                |                             | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                    | 03                            |                |                             | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Rectangular       | Square                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                    | 04                            |                |                             | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                    | 05                            |                |                             | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ] ↓               | <b>↓</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                    |                               | _              |                             | Black (blan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ik or need not b  | e filled in)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                    |                               | L              |                             | Gray                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                    | •                             |                | А                           | 1 to 3.5mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

Note: For 13 to 26 gang-mounted square types and 10 to 20 gang-mounted rectangular types, provide one or two support fixtures near the center.

# **REPAIR PARTS**

# 1. Button

Square flat



Rectangular flat



#### Type and catalog listing

| Shape of LED-lit surface    | Button shape, color                        | Catalog listing |
|-----------------------------|--------------------------------------------|-----------------|
| Square, single section      | Flat, achromatic transparent, gloss finish | PS5V-1C         |
| Rectangular, single section | Flat, achromatic transparent, gloss finish | PS5V-2C         |

# 2. Color plate

Square



Rectangular, lateral split



Rectangular



Rectangular, longitudinal split



Type and catalog listing I Example: PS5V-4R

|                         | •           | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <del>_</del> '                                                    |  |
|-------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|--|
| I<br>Basic<br>model No. | II<br>Color | CONTRACTOR OF THE CONTRACTOR O | Description                                                       |  |
| PS5V-3                  |             | Square, si                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ngle-section LED-lit                                              |  |
| PS5V-4                  |             | Rectangul                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ar, single-section LED-lit                                        |  |
| PS5V-5                  |             | Rectangular, lateral split LED-lit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                   |  |
| PS5V-6                  |             | Rectangul                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ar, longitudinal split LED-lit                                    |  |
|                         | w           | Milky white                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                   |  |
|                         | R           | Red                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                   |  |
|                         | G           | Green                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | In the case of 2-section LED-lit,<br>one model No. for each color |  |
|                         | Y           | Yellow                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                   |  |
|                         | D           | Orange                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                   |  |

# 3. Partition plate

Lateral split



Longitudinal



# Type and catalog listing

| Type                       | Catalog listing | Remarks                                   |
|----------------------------|-----------------|-------------------------------------------|
| Lateral split LED-lit      | PS5V-7Z         | Color interference                        |
| Longitudinal split LED-lit | PS5V-8Z         | between 2 LED lamp<br>colors is prevented |

# 4. Plunger

Square

Rectangular lateral split









# Type and catalog listing

| Туре                                                 | Catalog listing | Remarks                                             |
|------------------------------------------------------|-----------------|-----------------------------------------------------|
| Square single section                                | PS5P-SZ         | LED lamp reflection                                 |
| Rectangular single<br>section, longitudinal<br>split | PS5P-R1         | plate<br>couples the button<br>stroke to the switch |
| Rectangular lateral split                            | PS5P-R2         | unit.                                               |

#### 5. Tools

LED lamp tool



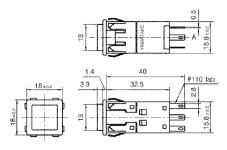


# Type and catalog listing

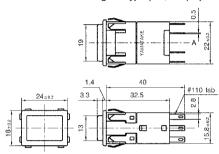
| Type          | Catalog listing | Remarks                    |
|---------------|-----------------|----------------------------|
| LED lamp tool | PS5T-AX         | Used for removing LED lamp |
| Button tool   | PS5T-AX1        | Used for removing buttons  |

# **EXTERNAL DIMENSIONS**

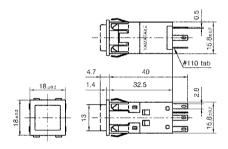
- Push-button switch and indicator body
- #110 tab terminal square type (flat, dimple)



• #110 tab terminal rectangular type (flat, dimple)

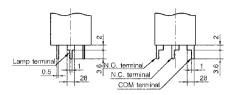


• #110 tab terminal square type • 2-section/2-color single-section (flat)



PCB terminal and PCB terminal dimensions (unit: mm)

# 1 Terminal shape

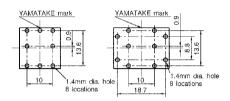


#### 2 PCB drilling dimensions

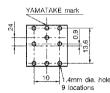
(view from rear with YAMATAKE mark facing up)

Square single-section LED-lighting

Rectangular · single-section LED-lighting 2-section LED-lighting 2-color single-section LED-lighting

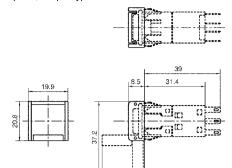


# Square · 2-section LED-lighting 2-color Single-section LED-lighting



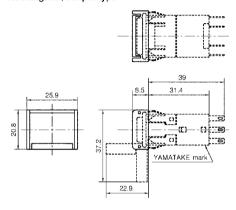
# • When switch guard is assembled

# Square, simple type

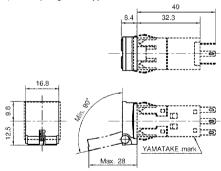


22.9

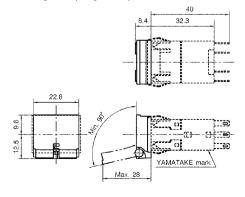
#### Rectangular, simple type



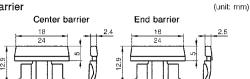
# Square, spring-back type



# Rectangular, spring-back type

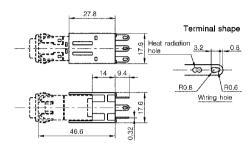


#### Barrier

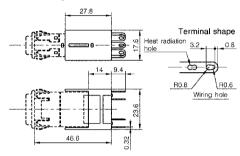


Upper numerals are for short barrier, and lower numerals are for long barrier.

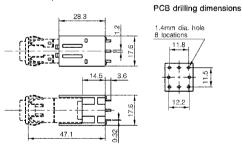
#### When assembling connector #110 tab square



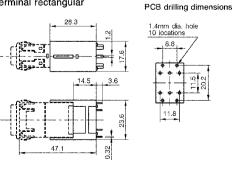
#### #110 tab rectangular



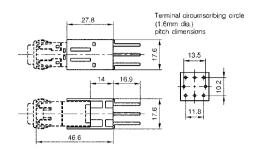
# PCB terminal square



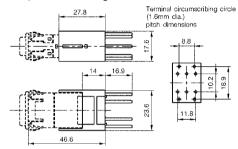
# PCB terminal rectangular



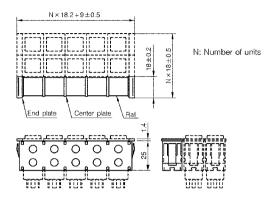
#### When assembling connector Wire-wrap terminal square



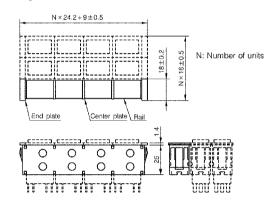
# Wire-wrap terminal rectangular



# • When matrix mounting fixture is assembled Square

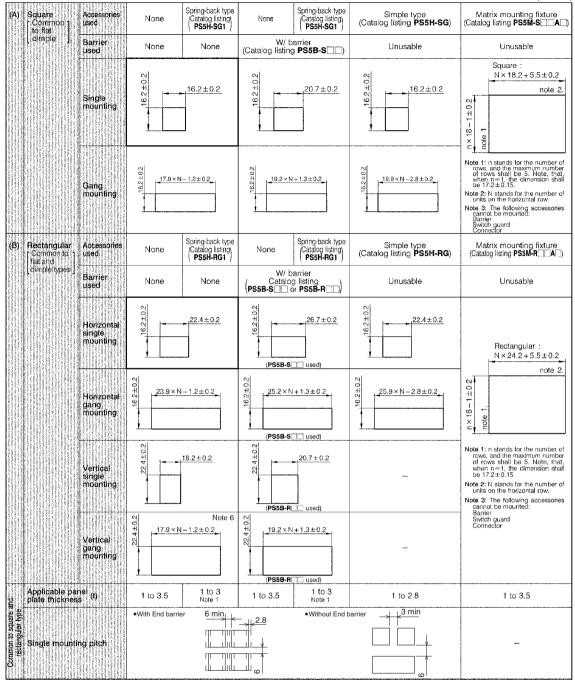


# Rectangular



# PANEL CUTOUT DIMENSIONS





Note 4: Applicable panel plate thickness (t) when the spring-back type switch guard is used is 1 to 3mm.

Note 5: Calculate the panel front and panel cutout dimensions according to the formula on the right when mounting square switches, rectangular switches, simple switches guards, and other switches together on the panel front.

Note, however that adjacent positioning of simple switch guards and barriess should be prevented.

Note 6: Cannot be used together with switch guard

(1) Panel cutout front panel dimensions (unit: mm) Switch (longitudinal spit) n1 = 17.9 × n, (lateral spit) n2 = 2.9 × n<sub>2</sub> W/ simple type switch guard

 $\begin{array}{ccc} \text{(square) n3} & \text{c=19.9} \times \text{n}_3 \\ \text{(rectangular) n4} & \text{d=26.9} \times \text{n}_4 \\ \text{Center barrier n5} & \text{e=1.3} \times \text{n}_5 \\ \text{End barrier n6} & \text{+)} \text{f=1.9} \times \text{n}_6 \end{array}$ 

Panel cutout front panel dimensions X=a+b+c+d+e+f

(2) Panel cutout dimensions=X-(right edge  $X_1$ + left edge  $X_2$ )

Right edge X<sub>1</sub> or left edge X<sub>2</sub> are as follows in the following instances: Switch w/out barrier: 0.6

End barrier: 0.6 Simple type switch guard: 1.55

Example: End barriers

Center burriers

 $\begin{array}{l} X = (17.9 \times 1) + (23.9 \times 2) + (1.3 \times 2) \\ + (1.9 \times 2) = 72.1 \text{mm} \\ \text{Panel cutout} = X - (0.6 + 0.6) = 70.9 \text{mm} \end{array}$ 

# PANEL CUTOUT FRONT PANEL DIMENSIONS

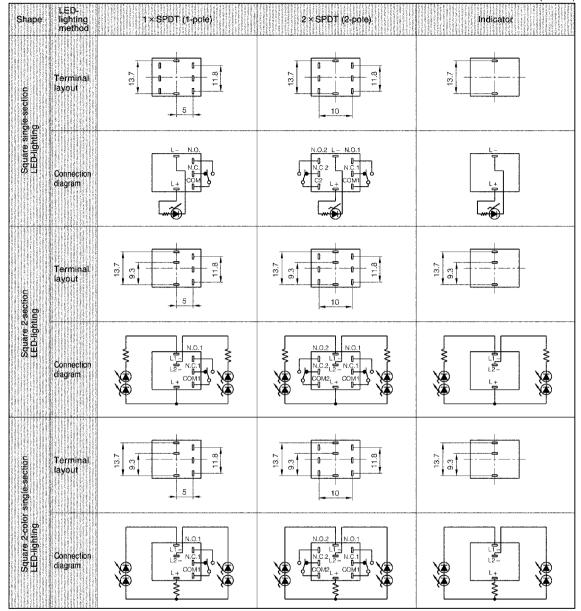
(unit: mm) Spring-back type Spring-back type Simple type (Catalog listing **PS5H-SG**) Matrix mounting fixture (Catalog listing PS5M-S□□A□) Square None Catalog listing PS5H-SG1 None Catalog listing Common to flat dimple used Barrier used W/ barrier (Catalog listing **PS5B-S**□□) None Unusable Unusable  $N \times 18.2 + 9 \pm 0.5$ 18±0.2  $20.8 \pm 0.2$ note Single mounting n×18±0.5 18±0.2 21.6 19.9 ± 0.2 Note 1: n stands for the number of rows, and the maximum number of rows shall be 5. Note, that, when n=1, the dimension shall be 18±0.2. 18±0.2 20.8±0.2 Gang mounting Note 2: N stands for the number of units on the horizontal row. ∞ Note 3: The following accessories cannot be mounted:
Barrier
Switch guard
Connector 17.9n 19.2n + 2.619 9n Rectangular r Common to flat and dimple types Accessories used Spring-back type (Catalog listing) PS5H-RG1 Spring-back type (Catalog listing) (PS5H-RG1) Matrix mounting fixture (Catalog listing PS5M-R A Simple type (Catalog listing **PS5H-RG**) (B) None None W/ barrier Catalog listing

(PS5B-S or PS5B-R ) None Unusable Unusable None 18±0.2 20.8 ± 0.2 Horizontal single mounting  $24 \pm 0.2$ 27.6 25.9±0.2  $N \times 24.2 + 9 \pm 0.5$ note 18±0.2 20.8±0.2 n×18±0.5 Horizontal gang mounting 8 otor 23.9n 25.2n+2.6 25.9n Note 1: n stands for the number of rows, and the maximum number of rows shall be 5. Note, that, when n=1, the dimension shall be 18±0.2. Vertical single mounting 24 ± 0.2 Note 2: N stands for the number of units on the horizontal row. 18±0.2 Note 3: The following accessories cannot be mounted:
Barrier
Switch guard
Connector 21.6 Vertical gang mounting 24 17.9n 19.2n + 2.6

# ■ TERMINAL CONNECTION DIAGRAMS

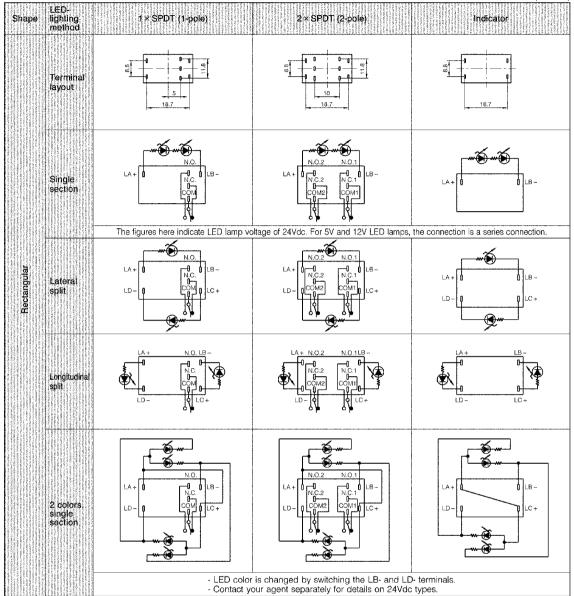
(connection diagram facing terminal with YAMATAKE mark surface facing up)

(unit: mm)



Note 1: The switch or indicator body must be rotated 180° for use depending on the color scheme of the required lamp. Be sure to check the orientation of the body in the lamps individual specifications for details on the design of the PCB circuit and panel mounting of the switches.

Note 2: The orientation and connection of LED lamps and current limiting resistors may vary from the actual states in the rough drawings.



Note: The orientation and connection of LED lamps and current limiting resistors may vary from the actual states in the rough drawings.

# **CURRENT LIMITING RESISTORS AND INTERNAL CIRCUITS**

(connection diagram viewed from the rear side facing terminal with YAMATAKE mark surface facing up)

| Catalog listing | Shape of LED-lit<br>surface                             | 24Vdc                                 | 12Vdc                                   | 5Vdc                                     |                            | Remarks                     | Control Action Control  Control Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control  Control |
|-----------------|---------------------------------------------------------|---------------------------------------|-----------------------------------------|------------------------------------------|----------------------------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PS5L-D. Z       | MICRO Square, single-section LED-lighting               | ⊕R1<br>⊕R1<br>⊕L+                     | R2<br>⊕L+                               | R3<br>⊕ C+                               | Resistance                 | Red                         | Amber<br>green                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| P\$5LE_Z_[].    | MICRO  Rectangular, single- section LED-lighting        | 8<br>9<br>R2 R2                       | R2 P3                                   | B R3 Ô                                   | R <sub>1</sub>             | 560<br>300                  | 560<br>270                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| P\$SL-J         | MICRO Square, 2-section LED-lighting                    | -                                     | RITERIO OLI OL2 OL+                     | QL1<br>QL2-<br>⊕L+                       | $ m R_3$ $ m R_4$ $ m R_5$ | 75<br>(Red<br>(amber)<br>62 | 30<br>56<br>(Green)<br>62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| PS5L-F          | MICRO  Rectangular, longitudinal split LED-lighting     | A A A A A A A A A A A A A A A A A A A | B A A A A A A A A A A A A A A A A A A A | 8 0 R3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | $R_6$ $R_7$ $(\Omega)$     | 560<br>75                   | 560<br>56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| PSSL-G          | MICRO  Rectangular, lateral split LED-lighting          |                                       | B                                       | 6 R3 G G                                 |                            |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| PS5L-K          | MICRO  Rectangular, 2-color single-section LED-lighting |                                       | 9L1-<br>0L2-<br>9L+                     | ⊖L1-<br>⊖L2-<br>⊕L+                      |                            |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                 | MICRO                                                   |                                       |                                         | B<br>OVEZIRZINO                          | Termina                    |                             | rminal D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| PS5LE E         |                                                         | -                                     |                                         |                                          | Red<br>Red                 |                             | Green<br>Amber                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                 | Square, 2-color single-<br>section LED-lighting         |                                       | Note 1                                  | Note 1                                   | Ambe                       | r                           | Green                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

Note 1: The two lamps cannot be lit simultaneously on square or rectangular 2-color single-section LED-lit types.

Note 2: Connect an external resistor for use on square 2-section LED-lit type, or square or rectangular 2-color single-section LED-lit 24Vdc types.

#### External resistor values

| External resistor values                            |                            |                                     |                                    |
|-----------------------------------------------------|----------------------------|-------------------------------------|------------------------------------|
| Shape of LED-lit surface                            | Voltage of LED lamp in use | External resistor values $(\Omega)$ | Remarks                            |
| Square 2-section LED-lighting                       | For 5Vdc                   | 1,500 1 W                           | Connected respectively to L1-, L2- |
| Square 2-color single-section LED-lighting          | For 5Vdc                   | 1,500 1 W                           | Connected to L+                    |
| Rectangular,                                        | For 5Vdc                   | 680 2W                              | Connected to 1 terminal (A or C)   |
| Rectangular,<br>2-color single-section LED-lighting | For 12Vdc                  | 430 1W                              | Connected to + terminal (A or C)   |

### PRECAUTIONS UPON USE

#### Attaching and Removing PS5 Switches

#### 1. LED-lighting indicator and operator

The button, color plate and plunger are packaged as a single set for square and rectangular single-section and 2-color singlesection LED-lit switches

For square and rectangular 2-section LED-lit switches, the button, color plate, partition plate and plunger are packaged as single set.



#### · How to print or inscribe

There are three ways to print or inscribe.



1. Button

 Button Inscribe directly on the inside (rear side) of the button.



2. Heat-resistant film (prepared by user)
 Print on the heat-resistant film.
 Fit the heat-resistant film in between the button and the color plate.



Color plate Inscribe directly or stamp on the top surface of the color plate.



Plunger

Note: Heat-resistant film dimensions

(unit: mm)





t=Max. 0.2



#### Number of characters and lines that can be printed or inscribed on push-buttons

The table on the right shows the number of characters that can be printed or inscribed on buttons, color plates and heatresistant films (not for sale).

Character width is expressed as follows as a ratio with respect to the standard character width of 1.0.

Standard character width

1.0: A, B, C, D, E, F, G, I, J, K, L, P, R, S, T, V, X, Y, Z 0, 1, 2, 3, 4, 5, 6, 7, 8, 9

1.33: D, H, N, O, Q, U

1.5: M, W

The total character width is obtained by adding the character width of each of the above characters. Fractions are rounded up.

Example: RUN  $\rightarrow$  R (1.0)+U (1.33)+N (1.33)=3.66  $\rightarrow$  4

| Type and orientation of button    | Max: number of<br>characters and lines |   |   | r hei<br>3.5 |   |   |
|-----------------------------------|----------------------------------------|---|---|--------------|---|---|
| Square large<br>flat-large dimple | Number of characters                   | 5 | 4 | 3            | 2 | 1 |
|                                   | Number of<br>lines                     | 3 | 3 | 2            | 1 | 1 |
| Square<br>flat•dimple             | Number of<br>characters                | 5 | 4 | 3            | 2 | 1 |
|                                   | Number of lines                        | 3 | 3 | 2            | 1 | 1 |
| Rectangular<br>flat dimple        | Number of characters                   | 8 | 6 | 5            | 3 | 1 |
|                                   | Number of lines                        | 3 | 3 | 2            | 1 | 1 |
| Rectangular<br>flat-dimple        | Number of<br>characters                | 5 | 4 | 3            | 2 | 1 |
|                                   | Number of lines                        | 5 | 5 | 3            | 2 | 1 |
| Square<br>2-section               | Number of<br>characters                | 5 | 4 | 3            | 0 | 0 |
|                                   | Number of<br>lines                     | 1 | 1 | 1            | 0 | 0 |
| Rectangular<br>lateral split      | Number of<br>characters                | 8 | 6 | 5            | 0 | 0 |
|                                   | Number of lines                        | 1 | 1 | 1            | 0 | 0 |
| Rectangular<br>Iongitudinal split | Number of<br>characters                | 4 | 3 | 2            | 1 | 1 |
|                                   | Number of<br>lines                     | 3 | 3 | 2            | 1 | 1 |
| Rectangular<br>Iongitudinal split | Number of<br>characters                | 5 | 4 | 3            | 2 | 0 |
|                                   | Number of<br>lines                     | 2 | 2 | 1            | 1 | 0 |

Max. number of characters and number of lines



Note: As dimple buttons are sculptured to have an indentation, the effect of the lens makes printed or inscribed characters appear warped on the button periphery.

#### 2. LED-lighting Indicator and Operator Assembling and Removal Procedure

#### Assembling

(1) Check the quantity of the button, color plate, (partition plate), plunger, etc. and inscription or characters on them.



(2) Turn over and place the button down.



(3) Insert the color plate in the button. When using heat-resistant film together with the color plate, insert the film first and then insert the color plate with the non-glossy surface facing the button side.



(4) In the case of a 2-section LED-lit lamp, insert the partition plate between the two color plates so that it is upright.



(5) Assemble the plunger. In the case of a 2-section LED-lit lamp, make sure that the partition plate is correctly inserted in the guide groove inside the plunger and is upright.

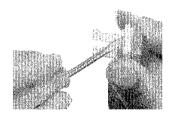


(6) When snapping in the plunger into the button, the button's hook must be firmly inserted into the groove on the plunger.



#### Removal

(1) Insert the tip of a fine-tipped regular screwdriver in between the groove on the side of the plunger and the button hook, and gently prize to remove the hook. When doing this, do not exert excessive force that might damage the hook.



(2) Gently release the button and plunger.



# 3. Assembling and Removing the LED Lamp

#### Assembling

(1) When the switch/housing section has an lighting indicator/operator, place your fingernail over the indentations at the top and bottom of the button to draw out the button towards you. We recommend using the button removal tool (model No. PS5T-AX1).



(2) Hook the claws of the LED lamp tool (model No. PS5T-AX) into the handle hole on the LED lamp unit, insert into the switch and remove the tool.



(3) Press the LED lamp unit with your fingertips and insert into the switch terminal.



(4) The assembling position of switches for square and rectangular singlesection LED-lit and square 2-section LED-lit/2-color single-section LED-lit LED units is restricted.

Switches for rectangular 2-section LED-lit LED units can be assembled in any direction. When assembling, assemble so that the switch matches the indication color.

Switch upper side





LED lamp unit rear side



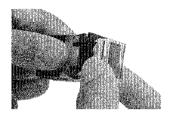


Square

Rectangular singlesection LED-lighting

#### Removal

(1) When the switch/housing section has an LED-lighting indicator/operator, place your fingernail over the indentations at the top and bottom of the button to draw out the button towards you. We recommend using the button removal tool (model No. PS5T-AX1).



(2) Hook the claws of the LED lamp tool (model No. PS5T-AX) into the handle hole on the LED lamp unit.



(3) Gently pull towards you with the LED lamp tool in a hooked state.



# 4. Assembling Auxiliary Parts

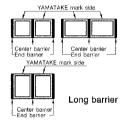
#### 4.1 Barrier

Barriers are protruding partitions for preventing erroneous operation of adjacent switch buttons caused by your finger slipping. The following types are available:

| Short center barrier inscription CNTR |
|---------------------------------------|
| Short end barrier inscription END     |
| Long center barrier inscription CENTR |
| Long end barrier inscription END      |

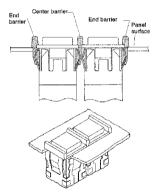


#### Short barrier



#### Assembling

Assemble the end barriers and center barrier so that both fitted in between the leaf springs for panel mounting of the switch.



#### Caution

- Avoid assembling onto the YAMATAKE mark surface side on the barrier due to the relationship between strength and faulty tightening.
- The barrier cannot be used together with the simple type switch guard.

#### 4.2 Switch guard

The switch guard is for preventing erroneous operation of switch buttons and for protecting switch button. Buttons cannot be operated as long as the switch guard door is closed.





- Assembling the simple type switch guard
- (1) Assemble the switch guard and switch before fitting the switch into the panel.

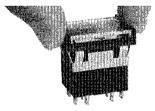




(2) Assemble the switch guard over the bezel surface.



(3) Align the switch guard with the bezel surface, and press down on the left and right sides to snap in.



#### • Removal

Pull up the switch guard towards you while alternately rocking to the left and right.

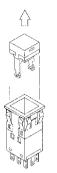
#### Caution

 The simple switch guard cannot be used together with the barrier.

#### Assembling and removing the springback type switch guard

#### Step 1:

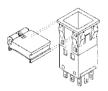
Remove the operator from the switch body.



#### Step 2:

Assemble the switch guard bracket (1 shaped section underneath) on the bezel on the body.

To assemble, slide in from the side.



#### Step 3:

After assembling in the switch guard, assemble the operator.





#### 4.3 Connector

Two types of connectors, for square types and rectangular types, are provided, and three terminal shapes are provided for each.

- Solder and #110 tab terminal combined
- PCB terminal
- Wire-wrap terminal



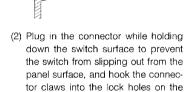


#### Assembling

After fitting the switch onto the panel, assemble the connector.

(1) Align the YAMATAKE mark surface on the connector with the YAMATAKE mark surface on the panel mounting switch.





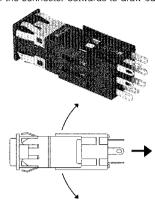


#### • Caution

 The connector cannot be used on square 2-section LED-lit and 2-color single-section LED-lit types.

#### · Removal

Spread the two claws on the left and right of the connector outwards to draw out.



#### 4.4 Matrix mounting fixture

The matrix mounting fixture comprises the following parts:

End plate section: 1 location each at both ends

Center plate section: n-1 location Rail section: 2 locations



#### · Panel mounting

 Prepare the necessary amount of mounting fixtures according to the number of switch mounting units.



(2) Snap in each of the mounting fixtures into the specified mounting holes with the YAMATAKE mark surface facing the same way.



(3) Prize the root of the leaf springs for the switch panel clamp to remove the leaf springs.



(4) Insert the switches with the YAMATAKE mark surface facing the same way.

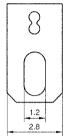


#### Removal

- (1) Draw out the switches at both the left and right ends.
- (2) When drawing out switches, either press the switch terminals to bring them out to the panel surface, or insert a fine-tipped regular screwdriver into the bezel and prize to draw out the switches.
- (3) Draw out the entire mounting fixture from the panel. Draw out each of the switches from the mounting fixture.

#### Wiring precautions

- (1) Use 0.75mm<sup>2</sup> or less electrical lead for wiring.
- (2) Be sure to use the wiring holes for wiring. Never use the small holes for heat radiation on the terminal root side.



- (3) Solder terminals within five seconds using a 300°C soldering iron.
  - Excessive heat damages the switch. Also, do not apply pulling force until the terminals have sufficiently cooled down.
- (4) The material of the switch contacts can be distinguished by the color of the terminals.

Normal load silver contact: Black Low current load gold cross contact: Light brown

# Operating environment restrictions

Observe the following conditions during mounting:

Allowable ambient temperature:

-20 to 40°C

Allowable ambient humidity:

Max. 85%RH

Vibration resistance:

Amplitude 1.5mm, 10 to 55Hz Atmosphere:

The PS5 series is a release type switch.

- Avoid use in locations subject to dirt and dust, metal powder and oil particles. If use in such locations is unavoidable, adopt countermeasures to prevent dirt and dust, metal powder and oil particles from entering inside.
- Do not use in locations where there is the risk of corrosion or explosion.

- When the button or switch becomes dirty, moisten gauze with a neutral detergent or alcohol, and wipe clean. Do not use organic solvents.
- · Do not drop or damage the switch.

#### Handling square 2-section LEDlighting units

With square 2-section LED-lighting units, the assembling direction of the switch/indicator body and LED lamp is restricted. For this reason, rotate the body unit before use depending on the combination of colors (reverse type to color code of LED lamp model No.). Pay attention to this when mounting the unit on a panel or wiring.

