## MECsystech



C $\epsilon$

## Snap-action switch / M28 RS-SS

## APPLICATION

- Limit switch for use on machine, door and plant controls

Auxiliary switch in e.g. cam switches and control devices

- Electromechanical switching element for automation tasks with separate electric loads
- Sensor for NC, PLC and computer controls
- Safety limit switch in control panels and electrical installations
- Assemblies subject to high shock and vibration
- Command controllers and reversers for battery-operated and diesel trucks
-Household appliances
- DC magnet and contactor control
- Function to prohibit welding of contacts


## FEATURES



- Positive opening operation
- Double break contacts
- Roller lever only
-Screw-type terminals
Dimensions (L $\times \mathrm{D} \times \mathrm{H}$ ): $50 \times 12 \times 50.50 \mathrm{~mm}$
- Weight: 32.5 g
- Ordering code: M28 RS-SS


## TECHNICAL DESCRIPTION

This is snap-action switch and has one NO contact and one NC contact. The change of the switching position is made rapidly. This switch allows the switching of high currents.

This switch is Form Z SPDT with double-break contacts, snap-action mechanism, and fulfills positive opening operation in case of contact welding. This makes them ideally suited for use in safety related applications.

The contact system is placed in a small desing made of transparent plastic material with high electrical and mechanical characteristics.

## ELECTRICAL TECHNICAL DATA FOR SWITCH

| Contact configuration | $1 \mathrm{NC}, 1 \mathrm{NO}$ |
| :--- | :---: |
| Contact resistance | $\leq 20 \mathrm{~m} \Omega$ |
| Rated impulse withstand voltage | 4 kV |
| Conventional thermal current It, A | 10 A |
| Rated insulation voltage Ui, V | 400 V |
| Connecting wire type | $1.5 \sim 2.5 \mathrm{~mm}^{2}$ |
| Utilization category DC | $110 \mathrm{~V} / 1 \mathrm{~A}, 40 \mathrm{~V} / 2.5 \mathrm{~A}, 12 \mathrm{~V} / 8 \mathrm{~A}$ |
| Utilization category AC | $230 \mathrm{~V} / 3 \mathrm{~A}$ |
| Minimum switching capacity | 5 mA |

## MECHANICAL TECHNICAL DATA FOR SWITCH

| Actuating speed | $1 \mathrm{~mm} / \mathrm{sec}$ Min. <br> $1 \mathrm{~m} / \mathrm{sec} \mathrm{Max}$. |
| :--- | :---: |
| Actuating force | 2.3 N |
| Contact gap | $2 \times 1.2 \mathrm{~mm}$ |

PERFORMANCE

| Mechanical life, cycles | $10^{7}$ |
| :--- | :---: |
| Electrical life, cycles | $10^{6}$ |
| Maximum operating frequency | Mechanical 240cycles/minute <br> Electrical 20cycles/minute |
| Protection degree(EN 60529) | Contact system IP40 |
|  | Terminals IP00 |
| Ambient temperature | $-40^{\circ} \mathrm{C} \sim+85^{\circ} \mathrm{C}$ |
| Vibration resistance | $30 \mathrm{~g}, 10 \cdots 500 \mathrm{~Hz}$ all directions |
| Shock resistance | 50 g |

## MATERIAL \& USAGE

| Contact material | Silver(Ag) |
| :--- | :---: |
| Casing material | Polycarbonate, transparent |
| Mounting | Side mounting |

DRAWING


## MOVEMENT DATA FOR SWITCH(DIMENSION X)

| Free position | $20.00 \mathrm{~mm} \pm 0.35 \mathrm{~mm}$ |
| :--- | :--- |
| Operating position | $16.00 \mathrm{~mm} \pm 0.50 \mathrm{~mm}$ |
| Release position | $18.00 \mathrm{~mm} \pm 0.50 \mathrm{~mm}$ |
| Limit position | $12.40 \quad \mathrm{~mm}$ |

## STANDARD CONFORMITY

| STANDARD | CODE | FIELD | DECISION |
| :---: | :---: | :---: | :---: |
| CE (AN 50200970 0001) | IEC 60947-5-2 | LOW VOLTAGE SWITCHGEAR | PASS |
| ISO 9001 | - | QUALITY MANAGEMENT | PASS |
| ISO 14001 | - | ENVIRONMENT MANAGEMENT | PASS |

## ORDER CODE

M28 XX-XX-X
(1)(2) (3)(4) (3)

| M28 | RS(1)(2)) | SS(3)(4) | $R(5)$ |
| :---: | :---: | :---: | :---: |
| Switch type | Lever | Mount \& Terminal | Etc. ${ }^{\text {P }}$ |
| Snap action switch | P Standard <br> RS Short roller lever ${ }^{+}$ <br> RL Long roller lever | SS Screw type <br> SF Flat quick connect <br> MS Mounting bracket <br>  Screw type <br> MF Mounting bracket <br>  Flat quick connect <br> M(Angle)S Angled mounting bracket  <br>  Screw type <br> M(Angle)F Angled mounting bracket  <br>  Flat quick connect | R Rivet |

