



CE

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



Contact	$3 \xrightarrow{4} 4$
Connection	$1 \xrightarrow{-} 2$

- ▶ Positive opening operation
- ► Double break contacts
- ► Roller lever only
- ► Screw-type terminals
- ▶ Dimensions (L × D × H): $50 \times 12 \times 50.50$ 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	1NC, 1NO	
Contact resistance	≤ 20mΩ	
Rated impulse withstand voltage	4kV	
Conventional thermal current It, A	10A	
Rated insulation voltage Ui, V	400V	
Connecting wire type	1.5 ~ 2.5mm²	
Utilization category DC	110V/1A, 40V/2.5A, 12V/8A	
Utilization category AC	230V/3A	
Minimum switching capacity	5mA	

MECHANICAL TECHNICAL DATA FOR SWITCH

Actuating speed	1mm/sec Min.	
	1m/sec Max.	
Actuating force	2.3N	
Contact gap	2 × 1.2mm	

PERFORMANCE

Mechanical life, cycles	10 7	
Electrical life, cycles	10 6	
Maximum operating frequency	Mechanical 240cycles/minute	
	Electrical 20cycles/minute	
Protection degree(EN 60529)	Contact system IP40	
	Terminals IP00	
Ambient temperature	-40°C~+85°C	
Vibration resistance	30g, 10…500Hz all directions	
Shock resistance 50g		

MATERIAL & USAGE

Contact material	Silver(Ag)
Casing material Polycarbonate, transpar	
Mounting	Side mounting

DRAWING



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3 -

1-

- 4

- 2



MOVEMENT DATA FOR SWITCH(DIMENSION X)

Free position	20.00mm ± 0.35mm	
Operating position	16.00mm ± 0.50mm	
Release position	18.00mm ± 0.50mm	
Limit position	12.40 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

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M28@	RS(①②)↩	SS(3))) +2	R(⑤)₽	
Switch type₽	Lever+ ²	Mount & Terminal		Etc.₽]
Snap action switch+	P Standard	SS	Screw type+'	R Rivet₽	
	RS Short roller lever↔	SF	Flat quick connect↔		
	RL Long roller lever₽	MS	Mounting bracket↔		
			Screw type↔		
		MF	Mounting bracket↔		
			Flat quick connecte		
		M(Angle)S	Angled mounting bracket↔		
			Screw type↔		
		M(Angle)F	Angled mounting bracket		
			Flat quick connecte		