

## Product No: 101061198

### SCHMERSAL ENCLOSED POSITION SWITCH MA 471-12/12Y

*Note: The opening and closing functions depend on the direction of actuation, the actuating magnets and the polarity of the actuating magnets. | When the switches and actuators come together, the colours must coincide: Red (S) to red (S) and green (N) to green (N). This does not apply to the bistable contact. | The switch is to be mounted on iron with a non-magnetic layer of at least 20 mm.*



#### General Information

Brand	SCHMERSAL
Cable Note	All indications including the conductor ferrules.
Coding Level According to EN ISO 14119	High
EAN	4030660000000
eCl@ss Number, Version 11.0	27-27-01-01
eCl@ss Number, Version 9.0	27-27-01-01
ETIM 6.0	EC002714
ETIM 7.0	EC001487
Housing Construction Form	Block
Product Type	Belt Alignment Switch
Protection Class of Operating Resource	3
Recommended Actuator	RST16-1   RST-U-2
Recommended Safety Switchgear	SRB-E-301ST   SRB-E-201LC
Working Principle	Mechanical

#### Technical Attributes

No. of Auxiliary Contacts	1
Actuating Torque (Nm)	0.31
Assured "OFF" Switching Distance (mm)	15
Assured "ON" Switching Distance (mm)	8
Contact Material	Silver
Design of Control Element	p-type

Integral System Diagnostics Status	Yes
Latching Force (N)	5
Maximum Actuating Speed (m/s)	1
Maximum Bounce Duration (ms)	2
Maximum Cable Cross Section (mm <sup>2</sup> )	2.5
Maximum Electrical Power Consumption (W)	8.5
Maximum Fuse Rating	6 A gG D-fuse
Maximum Holding Force (N)	2600
Maximum Switching Capacity (W)	10
Minimum Actuating Force (N)	9
Minimum Actuating Speed (mm/min)	10
Minimum Cable Cross Section (mm <sup>2</sup> )	0.75
Minimum Mechanical Life	1000000 Operations
Minimum Positive Break Force (N)	40
No. of Actuating Directions	3
No. of Cable Wires	4
No. of Normally-open Contacts	1
No. of Safety Contacts	3
Overvoltage Category	3
Positive Break Travel (mm)	10
Rated Control Voltage AC/DC (V)	24
Rated Impulse Withstand Voltage (kV)	4
Rated Insulation Voltage (V)	400
Rated Operating Current (mA)	2100
Rated Short-circuit Current (A)	400
Resistance to Shock (g/ms)	30 / 11
Switching Element	NO contact, NC contact
Switching Principle	slow action, positive break NC contact
Terminal Type	Screw terminals M20 x 1.5
Utilisation Category	DC-13   AC-15

## Physical Attributes

Actuator Type	Magnet
Cable Entry	1x M20
Enclosure Coating Material	Painted
Enclosure Material	Aluminium / chromated steel
Gross Weight (g)	30
Installation Conditions	Arbitrarily
Material of The Cable Mantle	PVC
Maximum Ambient Temperature (°C)	90
Minimum Ambient Temperature (°C)	0
Mounting Type	Fine-adjustment through slotted holes
Net Weight (g)	388.19
Roller Material	Plastic
Storage Temperature (°C)	-25 to 70
Wire Cross-Section	0.25 mm

### Dimensions

Cable Length (m)	2
Depth (mm)	37
Height (mm)	11
Sensor Height (mm)	92
Sensor Length (mm)	38
Width (mm)	10

### Protection & Standards

Degree of Protection	IP67 / IP65
Pollution Degree	2
Standards	EN IEC 60947-5-2 / DIN VDE 0660-208

### Resources

Product catalogue (Flipbook)	<a href="#">Download from here</a>
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