

Product No: 101057530

SCHMERSAL ENCLOSED MAGNETIC REED SWITCH 101057530

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).



General Information

Brand	SCHMERSAL
Cable Note	All indications including the conductor ferrules.
Coding Level According to EN ISO 14119	Low
EAN	4030660000000
eCl@ss Number, Version 11.0	27-27-26-01
eCl@ss Number, Version 9.0	27-27-26-01
ETIM 6.0	EC002714
ETIM 7.0	EC011141
Housing Construction Form	Cylinder smooth
No. of Beams	52
Product Type	Safety Switch
Recommended Actuator	BPS 300 BPS 303 BPS 303 SS
Recommended Safety Switchgear	SRB-E 301
Version	Round Mushroom button
Working Principle	Electromechanical

Technical Attributes

No. of Auxiliary Contacts	1
Switchover Time (ms)	40
Actuating Torque (Nm)	0.15
Actuator Type to EN 50047	C
Assured "OFF" Switching Distance (mm)	15

Bounce Duration	Bounce duration in accordance with actuating speed
Coding Type	Universal coding
Connector Type	Connector plug M12, 4-pole
Contact Material	Silver
Design of Control Element	p-type
Detection Ability for Test Bodies @ V = 1.6 m/s	14 mm
Height of The Protection Field (mm)	890
Integral System Diagnostics Status	Yes
Latching Force (N)	20
Maximum Actuating Speed (m/s)	0.5
Maximum Bounce Duration (ms)	2
Maximum Cable Cross Section (mm ²)	1 x 2.5
Maximum Electrical Power Consumption (W)	10
Maximum Fuse Rating	2 A gG D-fuse
Maximum Holding Force (N)	2600
Maximum Leakage Current (mA)	0.5
Maximum No-load Supply Current (mA)	100
Maximum Output Current (A)	0.25
Maximum Permissible Installation Altitude Above Sea Level (m)	2000
Maximum Protection Field (mm)	20000
Maximum Reaction Time (ms)	10
Maximum Switching Capacity (W)	1
Maximum Switching Current (A)	0.01
Maximum Switching Frequency (Hz)	5
Maximum Switching Voltage AC (V)	250
Minimum Actuating Force (N)	9
Minimum Actuating Speed (mm/min)	60
Minimum Cable Cross Section (mm ²)	0.25
Minimum Mechanical Life	5000000 Operations
Minimum Positive Break Force (N)	50

No. of Actuating Directions	4
No. of Cable Wires	4
No. of Normally-open Contacts	1
No. of Safety Contacts	3
Overvoltage Category	3
Positive Break Travel (mm)	2
Rated Control Voltage DC (V)	24
Rated Impulse Withstand Voltage (kV)	6
Rated Insulation Voltage (V)	500
Rated Operating Current (mA)	4000
Rated Short-circuit Current (A)	1000
Resistance to Shock (g/ms)	110 / 4
Switching Element	Normally open contact (NO)
Switching Principle	Slow action
Switchover Time	Switchover time in accordance with actuating speed
Terminal Type	Plug-in connection, bottom
Tolerance	10%
Utilisation Category	DC-13 AC-15
Utilisation Category AC-15	230 VAC
Utilisation Category DC-13	2.5 A, 24 VDC
Wavelength of The Sensor (nm)	850

Physical Attributes

Active Area	Lateral
Actuator Type	Plunger
Cable Entry	Without cable gland
Colour of The Front Ring	Silver
Design	Straight
Direction of Motion	Head-on to the active surface
Enclosure Coating Material	Painted
Enclosure Material	Light-alloy diecast, paint finish

Front Ring Material	Aluminium
Gross Weight (g)	34.79
Installation Conditions	Arbitrarily
Lever Material	Metal film
Material of The Cable Mantle	PVC
Maximum Ambient Temperature (°C)	80
Maximum Relative Humidity	85%
Minimum Ambient Temperature (°C)	-25
Mounting Type	Mounting flange
Net Weight (g)	1120
Recipient Terminal Connector Type	Connector plug M12, 8-pole
Roller Material	Plastic
Sealing Type	Form seals / Lip gaskets / Membrane
Storage Temperature (°C)	-25 to 70
Wire Cross-Section	23 AWG

Dimensions

Cable Length (m)	5
Depth (mm)	115
Height (mm)	189
Sensor Height (mm)	1571
Sensor Length (mm)	30
Spacing (mm)	50 x 50
Width (mm)	295

Protection & Standards

Degree of Protection	IP67
Pollution Degree	3
Standards	EN IEC 60947-5-3 / BG-GS-ET-14

Resources

Product catalogue (Flipbook)	Download from here
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