

Product No: 101057231

SCHMERSAL MAGNETIC REEDSWITCH 1 CONTACT BN 32-R

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	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	EC001471
ETIM 7.0	EC000030
Housing Construction Form	Norm construction design
No. of Beams	168
Product Type	Magnetic Reed Switch
Protection Class of Operating Resource	3
Recommended Actuator	BPS 40S-2 BPS 40S-1-C BPS 40S-2-C
Recommended Safety Switchgear	SRB-E-301ST
Version	Round Mushroom button
Working Principle	Magnetic drive

Technical Attributes

No. of Auxiliary Contacts	1
Switchover Time (ms)	5.5
Actuating Torque (Nm)	0.15
Actuator Type to EN 50047	B
Assured "OFF" Switching Distance (mm)	18

Bounce Duration	Bounce duration in accordance with actuating speed
Coding Type	Universal coding
Connector Type	Connector plug M12, 4-pole
Contact Material	Silver-nickel alloy 10
Design of Control Element	p-type
Detection Ability for Test Bodies @ V = 1.6 m/s	35 mm
Height of The Protection Field (mm)	250
Integral System Diagnostics Status	Yes
Latching Force (N)	20
Maximum Actuating Speed (m/s)	1
Maximum Bounce Duration (ms)	3
Maximum Cable Cross Section (mm ²)	2.5
Maximum Electrical Power Consumption (W)	10
Maximum Fuse Rating	6 A gG D-fuse
Maximum Holding Force (N)	2600
Maximum Leakage Current (mA)	1.5
Maximum No-load Supply Current (mA)	35
Maximum Output Current (A)	0.25
Maximum Permissible Installation Altitude Above Sea Level (m)	2000
Maximum Protection Field (mm)	10000
Maximum Reaction Time (ms)	10
Maximum Switching Capacity (W)	120
Maximum Switching Current (A)	0.01
Maximum Switching Frequency (Hz)	5
Maximum Switching Voltage DC (V)	24
Minimum Actuating Force (N)	3
Minimum Actuating Speed (mm/min)	1
Minimum Cable Cross Section (mm ²)	0.75
Minimum Mechanical Life	10000000 Operations
Minimum Positive Break Force (N)	50

No. of Actuating Directions	1
No. of Cable Wires	4
No. of Normally-open Contacts	1
No. of Safety Contacts	2
Overvoltage Category	3
Positive Break Travel (mm)	2
Rated Control Voltage AC (V)	24
Rated Control Voltage DC (V)	24
Rated Impulse Withstand Voltage (kV)	6
Rated Insulation Voltage (V)	300
Rated Operating Current (mA)	7000
Rated Short-circuit Current (A)	1000
Resistance to Shock (g/ms)	30 / 11
Switching Element	NO contact, NC contact
Switching Principle	Slow action
Switchover Time	Switchover time in accordance with actuating speed
Terminal Type	Screw terminals M20 x 1.5
Tolerance	10%
Utilisation Category	DC-13 AC-15
Utilisation Category AC-15	230 VAC
Utilisation Category DC-13	24 VDC
Wavelength of The Sensor (nm)	850

Physical Attributes

Active Area	Plastic
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	Glass-fibre, reinforced thermoplastic
Front Ring Material	Aluminium
Gross Weight (g)	815
Installation Conditions	Quasi-flush
Lever Material	Plastic
Material of The Cable Mantle	PVC
Maximum Ambient Temperature (°C)	75
Maximum Relative Humidity	95%
Minimum Ambient Temperature (°C)	-25
Mounting Type	Mounting flange EFM
Net Weight (g)	155.5
Recipient Terminal Connector Type	Connector plug M12, 8-pole
Roller Material	Plastic
Sealing Type	Lip gaskets / Membrane
Storage Temperature (°C)	-25 to 70
Wire Cross-Section	23 AWG

Dimensions

Cable Length (m)	5
Depth (mm)	21.5
Height (mm)	160
Sensor Height (mm)	371
Sensor Length (mm)	30
Spacing (mm)	80 x 80
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](#)
