

Product No: 101133009

SCHMERSAL BNS180-02Z SAFETY SENSOR 101133009

FEATURES

- Safety sensor with thermoplastic enclosure
- Features coding for secure operation
- Equipped with 1 opener and 1 shutter
- Includes 2 safety contacts
- Comes with 4 cable wires
- Utilizes a magnet as the actuating element
- Fitted with an 8-meter-long cable for connectivity
- M30 ISO thread for easy installation of the sensor
- Capable of switching voltage up to 100 V AC/DC



Note: Contact symbols shown for the closed condition of the guard device. | The contact configuration for versions with or without LED is identical.

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	27-27-34-92
eCl@ss Number, Version 9.0	27-27-26-06
ETIM 6.0	EC002592
ETIM 7.0	EC001029
Housing Construction Form	Norm construction design
Product Type	Safety Sensor
Protection Class of Operating Resource	3
Series	BNS180
Working Principle	Mechanical

Technical Attributes

No. of Auxiliary Contacts	1
Contact Material	Silver
Maximum Actuating Speed (m/s)	1

Maximum Cable Cross Section (mm ²)	1.5
Maximum Fuse Rating	6 A gG D-fuse
Minimum Actuating Speed (mm/min)	160
Minimum Cable Cross Section (mm ²)	0.75
Minimum Mechanical Life	1000000 Operations
Minimum Positive Break Force (N)	19
No. of Safety Contacts	2
Nominal Output Current (A)	0.25
Nominal Power (W)	3
Overvoltage Category	3
Rated Impulse Withstand Voltage (kV)	4
Rated Insulation Voltage (V)	300
Rated Maximum Operational Voltage AC (V)	100
Rated Maximum Operational Voltage DC (V)	100
Rated Short-circuit Current (A)	1000
Resistance to Shock (g/ms)	30 / 11
Switching Element	NC contact, NO contact
Switching Principle	Slow action
Terminal Type	Connector
Thermal Test Current (A)	16
Utilisation Category	DC-13 AC-15
Utilisation Category DC-13	0.05 A

Physical Attributes

Actuator Type	Magnet
Enclosure Coating Material	Painted
Enclosure Material	Metal, zinc die-cast
Gross Weight (g)	180
Installation Conditions	Not flush
Maximum Ambient Temperature (°C)	80
Maximum Temperature (°C)	70
Minimum Ambient Temperature (°C)	-30

Minimum Temperature (°C)	-25
Mounting Type	Snaps onto standard DIN rail to EN 60715
Net Weight (g)	25
Storage Temperature (°C)	25 to 85
Wire Cross-Section	13 AWG

Dimensions

Height (mm)	11
Sensor Height (mm)	89.5
Sensor Length (mm)	38
Width (mm)	67.5

Protection & Standards

Degree of Protection	IP67
Pollution Degree	3
Standards	EN IEC 61496-1 / EN IEC 61496-2

Resources

Product catalogue (Flipbook)	Download from here
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