

Product No: 101109212

SCHMERSAL BNS33-12ZG SAFETY SENSOR 101109212

FEATURES

- Safety sensor with thermoplastic enclosure
- Features coding and requires a prerequisite evaluation unit
- Equipped with 2 openers and 1 shutter
- Actuating element is a magnet
- Comes with a terminal connector cable, 1 m in length
- Lateral active area for operation
- Switching voltage rated at 100 V AC/DC
- Switching current of 0.4 A
- Switching capacity of 10 W



Note: In case of failure (interruption of the 0 V supply) the maximum leakage current is 1 mA.

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	27-37-12-10
eCl@ss Number, Version 9.0	27-37-12-10
ETIM 6.0	EC000221
ETIM 7.0	EC000030
Housing Construction Form	Norm construction design
Product Type	Safety Sensor
Protection Class of Operating Resource	3
Recommended Actuator	MZM 100-B1.1
Recommended Safety Switchgear	SRB-E-301ST SRB-E-201LC
Series	BNS33
Working Principle	Electromechanical

Technical Attributes

No. of Auxiliary Contacts	1
Contact Material	Silver
Design of Control Element	Short-circuit proof, p-type
Latching Force (N)	30
Maximum Actuating Speed (m/s)	0.2
Maximum Bounce Duration (ms)	3
Maximum Cable Cross Section (mm ²)	2 x 2.5
Maximum Fuse Rating	6 A gG D-fuse
Maximum Switching Capacity (VA)	120
Minimum Actuating Speed (mm/min)	10
Minimum Cable Cross Section (mm ²)	2 x 0.75
Minimum Mechanical Life	1000000000 Operations
Minimum Positive Break Force (N)	19
No. of Safety Contacts	1
Nominal Output Current (A)	0.01
Nominal Power (W)	0.2
Overvoltage Category	3
Positive Break Travel (mm)	8
Rated Impulse Withstand Voltage (kV)	4
Rated Insulation Voltage (V)	300
Rated Maximum Operational Voltage DC (V)	24
Rated Operating Current (mA)	1200
Rated Short-circuit Current (A)	400
Resistance to Shock (g/ms)	30 / 11
Switching Element	NO contact, NC contact
Switching Principle	Slow action
Terminal Type	Flat plug-in connector - 6.3 mm x 0.8 mm / 2 x 2.8 mm x 0.8 mm
Thermal Test Current (A)	0.25
Utilisation Category	DC-13 AC-15

Physical Attributes

Actuator Type	Magnet
Enclosure Coating Material	Painted
Enclosure Material	Plastic, glass-fibre-reinforced
Gross Weight (g)	2130
Installation Conditions	Quasi-flush
Maximum Ambient Temperature (°C)	90
Maximum Temperature (°C)	70
Minimum Ambient Temperature (°C)	-25
Minimum Temperature (°C)	-25
Mounting Type	Can be clipped into standard rail
Net Weight (g)	75
Storage Temperature (°C)	-25 to 70
Wire Cross-Section	0.25 mm

Dimensions

Cable Length (m)	2
Depth (mm)	220
Height (mm)	100
Sensor Height (mm)	84
Sensor Length (mm)	33
Width (mm)	22.5

Protection & Standards

Degree of Protection	IP67
Pollution Degree	3
Standards	EN IEC 60947-5-2 / DIN VDE 0660-208

Resources

Product catalogue (Flipbook)	Download from here
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