

Product No:101107770

SCHMERSAL BNS33-11Z SAFETY SENSOR 101107770

FEATURES

- Inductive proximity switch
- DC 3-wire connection
- Cylinder shape with thread design
- Sensing distance of 4 mm
- M12 connector type
- ISO thread size M12
- Normally Open (NO) contact switching element
- Metal enclosure material
- Operating voltage range: 5 to 40 VDC



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	27-37-12-11
eCl@ss Number, Version 9.0	27-37-12-11
ETIM 6.0	EC000223
ETIM 7.0	EC000641
Housing Construction Form	Norm construction design
Product Type	Safety Sensor
Protection Class of Operating Resource	3
Recommended Actuator	AZM 40-B1
Recommended Safety Switchgear	SRB-E-301ST SRB-E-201LC
Series	BNS33
Working Principle	Electromechanical

Technical Attributes

No. of Auxiliary Contacts	1
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Contact Material	Silver
Design of Control Element	Short-circuit proof, p-type
Latching Force (N)	30
Maximum Actuating Speed (m/s)	2
Maximum Bounce Duration (ms)	2
Maximum Cable Cross Section (mm ²)	1 x 1.5
Maximum Fuse Rating	6 A gG D-fuse
Maximum Switching Capacity (VA)	120
Minimum Actuating Speed (mm/min)	60
Minimum Cable Cross Section (mm ²)	0.25
Minimum Mechanical Life	30000 Operations
Minimum Positive Break Force (N)	20
No. of Safety Contacts	2
Nominal Output Current (A)	0.4
Nominal Power (W)	10
Overtoltage Category	3
Positive Break Travel (mm)	8
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 Operating Current (mA)	50
Rated Short-circuit Current (A)	400
Resistance to Shock (g/ms)	30 / 11
Switching Element	Opener (NC)
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	Roller lever
Enclosure Coating Material	Painted
Enclosure Material	Plastic, glass-fibre-reinforced
Gross Weight (g)	75
Installation Conditions	Not flush
Maximum Ambient Temperature (°C)	90
Maximum Temperature (°C)	70
Minimum Ambient Temperature (°C)	0
Minimum Temperature (°C)	-25
Mounting Type	Can be clipped into standard rail
Net Weight (g)	59
Storage Temperature (°C)	-25 to 70
Wire Cross-Section	0.25 mm

Dimensions

Cable Length (m)	2
Depth (mm)	121
Height (mm)	100
Sensor Height (mm)	100
Sensor Length (mm)	33
Width (mm)	40

Protection & Standards

Degree of Protection	IP67
Pollution Degree	2
Standards	EN IEC 60947-5-1

Resources

Product catalogue (Flipbook)	Download from here
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