



EX-BNS 120-11Z-3G/D



- Explosion protection for ATEX Zones 2 and 22
- Thermoplastic enclosure
- Ø M12
- Particularly large switching distance
- Insensitive to transverse misalignment
- Suitable for food processing industry only in combination with BP 15 SS
- no mechanical wear

Data

Ordering data

EAN (European Article Number)	4030661333106
eCl@ss number, Version 9.0	27-27-24-02
eCl@ss number, Version 11.0	27-27-24-02
ETIM number, version 6.0	EC002544
ETIM number, version 7.0	EC002544

Explosion protection

Explosion protection: regulations	EN 60079-0 EN 60079-31
Explosion protection zones	22 2
Explosion protection category	3D 3G
Explosion protection designation	 II 3G Ex nC IIC T6 Gc X  II 3D Ex tc IIIC T80°C Dc X
Manufacturer declaration	ATEX Zone 2 and 22

General data

Standards	IEC 60947-5-3
Housing construction form	Cylinder, thread
Installation conditions (mechanical)	quasi-flush
Enclosure material	Glass-fibre, reinforced thermoplastic
Gross weight	55 g

General data - Features

Short circuit detection	Yes
Short-circuit recognition	Yes
Number of openers	1
Number of shutters	1
Number of safety contacts	2

Safety appraisal

Standards	EN ISO 13849-1
Mission Time	20 Year(s)

Safety appraisal - Safety outputs

B10d- Value Normally-closed contact/Normally open contact (NC/NO)	25,000,000 Operations
---	-----------------------

Mechanical data

Active area	front side
Actuating element	Magnet

Actuator switch distance	Actuating magnet BP 8, Sao: 10 mm
	Actuating magnet BP 15 SS, Sao: 20 mm
	Actuating magnet BP 10, Sao: 20 mm
	Actuating magnet BP 6, Sao: 10 mm
	Actuating magnet BP 8, Sar: 22 mm
	Actuating magnet BP 15 SS, Sar: 32 mm
	Actuating magnet BP 10, Sar: 32 mm
Impact energy, maximum	2 J
Direction of motion	Head-on to the active surface

Mechanical data - Switching distances according IEC 60947-5-3

Ensured switch distance "ON" S_{ao}	10 mm
	20 mm
Ensured switch distance "OFF" S_{ar}	22 mm
	32 mm

Mechanical data - Connection technique

Terminal Connector	Cable
Length of cable	1 m
Wire cross-section	0.25 mm ²
Wire cross-section	23 AWG
Material of the Cable mantle	PVC

Mechanical data - Dimensions

ISO thread of the sensor	M12
Length of sensor	38.5 mm

Ambient conditions

Degree of protection	IP67
Ambient temperature, minimum	-25 °C
Ambient temperature, maximum	+70 °C

Storage and transport temperature, minimum	-25 °C
Storage and transport temperature, maximum	+70 °C
Resistance to vibrations to EN 60068-2-6	10 ... 55 Hz, amplitude 1 mm
Resistance to shock	30 g / 11 ms

Electrical data

Voltage type	AC (alternating current) DC (direct current)
Switching voltage, maximum	100 VAC
Switching voltage, maximum	100 VDC
Switching current, maximum	0.25 A
Switching capacity, maximum	5 W
Switching frequency, maximum	5 Hz

Scope of delivery

Included in delivery	Actuators must be ordered separately.
----------------------	---------------------------------------

Accessory

Recommendation (actuator)	BP 10 BP 8 BP 6 BP 15 SS
Recommended safety switchgear	SRB-E-301ST SRB-E-201LC

Notes

Note (General)

Contact symbols shown for the closed condition of the guard device.
The safety sensor must be mounted in such a way that actuation with another magnet is impossible (concealed mounting according to ISO 14119)

Schmersal, Inc., 15 Skyline Drive, Hawthorne, NY 10532

The details and data referred to have been carefully checked. Images may diverge from original. Further technical data can be found in the manual. Technical amendments and errors possible.

Generated on: 11/9/2021, 9:45 AM