



EX-BNS 120-02Z-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

Product type description	EX-BNS 120-02Z-3G/D
Article number (order number)	101212052
EAN (European Article Number)	4030661392097
eCl@ss number, version 11.0	27-27-24-02
eCl@ss number, version 9.0	27-27-24-02
ETIM number, version 7.0	EC002544
ETIM number, version 6.0	EC002544

Explosion protection

Explosion protection: regulations	EN IEC 60079-0 EN IEC 60079-15 EN 60079-31
Explosion protection zones	2 22
Explosion protection category	3G 3D
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	EN IEC 60947-5-3
Housing construction form	Cylinder, thread
Installation conditions (mechanical)	quasi-flush
Housing material	Glass-fibre, reinforced thermoplastic
Gross weight	75 g

General data - Features

Short circuit detection	Yes
Cross-circuit detection	Yes
Number of normally closed (NC)	2
Number of safety contacts	2

Safety classification

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

Safety classification - Safety outputs

B _{10D} Normally-closed contact (NC)	25,000,000 Operations
--------------------------------------------------	-----------------------

Mechanical data

Active area	front side
Actuating element	Magnet

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

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

Assured switching distance	10 mm
"ON" S_{ao}	20 mm
Assured switching distance	22 mm
"OFF" S_{ar}	32 mm

Mechanical data - Connection technique

Length of cable	1 m
Termination	Cable
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	-25 ... +70 °C
Storage and transport temperature, minimum	-25 °C
Storage and transport temperature, maximum	+70 °C

Resistance to vibrations 10 ... 55 Hz, amplitude 1 mm

Resistance to shock 30 g / 11 ms

Electrical data

Switching voltage, maximum 100 VAC

Switching voltage, maximum 100 VDC

Switching current, maximum 0.25 A

Switching capacity, maximum 3 W

Switching frequency,
maximum 5 Hz

Scope of delivery

Scope of delivery Actuator 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

Note

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 EN ISO 14119)

Ordering code

Product type description:
EX-BNS 120-(1)Z-3G/D

(1)

11

1 NO contacts/1 NC contact

