



EX-BNS 180-12Z-2187-2-3G/D 5,0M

- Explosion protection for ATEX Zones 2 and 22
- Thermoplastic enclosure
- Ø M18
- 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)	4030661352657
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 60079-15 EN 60079-31 IEC 60079-0
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

General data

Standards	IEC 60947-5-3 BG-GS-ET-14
Housing construction form	Cylinder, thread
Installation conditions (mechanical)	quasi-flush
Enclosure material	Glass-fibre, reinforced thermoplastic
Gross weight	235 g

General data - Features

Short circuit detection	Yes
Short-circuit recognition	Yes
Number of openers	2
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
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Mechanical data

Active area	front side
Actuating element	Magnet

Actuator switch distance	Actuating magnet BP 15 SS, Sao: 18 mm
	Actuating magnet BP 10, Sao: 18 mm
	Actuating magnet BP 8, Sao: 8 mm
	Actuating magnet BP 6, Sao: 8 mm
	Actuating magnet BP 8, Sar: 20 mm
	Actuating magnet BP 15 SS, Sar: 28 mm
	Actuating magnet BP 10, Sar: 28 mm
	Actuating magnet BP 6, Sar: 20 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}	18 mm
	8 mm
Ensured switch distance "OFF" S_{ar}	22 mm
	32 mm

Mechanical data - Connection technique

Terminal Connector	Cable
Length of cable	5 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	M18
Length of sensor	36 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	120 VAC
Switching voltage, maximum	120 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.
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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)

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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.

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