



BNS 180-12Z-2187-2 6,0M

- Thermoplastic enclosure
- Suitable for food processing industry only in combination with BP 15 SS
- Particularly large switching distance
- Ø M 18 x 1
- Long life
- no mechanical wear
- Insensitive to transverse misalignment
- Insensitive to soiling

Data

Ordering data

EAN (European Article Number) 4030661158105

Approval - Standards

Certificates TÜV
EAC

General data

Standards	IEC 60947-5-3 BG-GS-ET-14
Coding level according to ISO 14119	None
Active principle	Magnetic drive
Installation conditions (mechanical)	quasi-flush
Enclosure material	Glass-fibre, reinforced thermoplastic
Gross weight	280 g

General data - Features

Number of openers	2
Number of shutters	1
Number of safety contacts	2
Number of cable wires	6

Safety appraisal

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

Mechanical data

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 6, Sar: 22 mm Actuating magnet BP 10, Sar: 32 mm
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	6 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 current, maximum	0.25 A
Switching capacity, maximum	3 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, 11:13 AM