



## BNS 180-12Z-2187-2

- 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) 4030661150420

### 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	59 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" $S_{ao}$	18 mm 28 mm
Ensured switch distance "OFF" $S_{ar}$	22 mm 32 mm

## Mechanical data - Connection technique

Terminal Connector	Cable
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Length of cable	1 m
Wire cross-section	0.25 mm <sup>2</sup>
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.
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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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