



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
- uncoded, concealed installation according to ISO 14119

Data

Ordering data

Product type description	BNS 180-12Z-2187-2
Article number (order number)	101149207
EAN (European Article Number)	4030661150420
eCl@ss number, version 12.0	27-27-44-01
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

General data

Standards	BG-GS-ET-14 EN IEC 60947-5-3
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Coding level according to EN ISO 14119	None
Working principle	Magnetic drive
Installation conditions (mechanical)	quasi-flush
Housing material	Glass-fibre, reinforced thermoplastic
Gross weight	59 g

General data - Features

Coding	Yes
Number of normally closed (NC)	2
Number of normally open (NO)	1
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
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Mechanical data

Actuating element	Magnet
Switching distance actuator	Actuating magnet BP 10, Sao: 18 mm Actuating magnet BP 10, Sar: 28 mm Actuating magnet BP 15 SS, Sao: 18 mm Actuating magnet BP 15 SS, Sar: 28 mm
Direction of motion	Head-on to the active surface

Mechanical data - Switching distances

Assured switching distance 16 mm

"ON" S_{ao}

Assured switching distance 28 mm

"OFF" S_{ar}

Note (switching distance) All switching distances in accordance EN IEC 60947-5-3

Mechanical data - Connection technique

Length of cable 1 m

Termination cable

Number of cable wires 6

Wire cross-section 0.25 mm²

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 -25 ... +70 °C

Storage and transport temperature -25 ... +70 °C

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

Resistance to shock 30 g / 11 ms

Electrical data

Switching current, maximum 0.25 A

Switching capacity, maximum	3 W
Switching element	1 NO contact, 2 NC contacts
Switching frequency, maximum	5 Hz

Scope of delivery

Scope of delivery	Actuator must be ordered separately.
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Accessory

Recommendation (actuator)	BP 10 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)
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Ordering code

Product type description:
BNS 180-(1)Z-(2)

(1)

11	1 NO contact/1 NC contact
12	1 NO contact/2 NC contacts
02	2 NC contact

(2)

2187-2	Individual contact outlet
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Pictures

Product picture (catalogue individual photo)



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| 228.7 kB | .jpg | 130.881 x 409.575 mm - 371 x 1161 px - 72 dpi

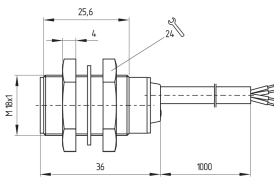
| 88.8 kB | .png | 74.083 x 231.775 mm - 210 x 657 px - 72 dpi

| 18.0 kB | .jpg | 39.511 x 123.472 mm - 112 x 350 px - 72 dpi

| 15.5 kB | .png | 74.083 x 74.083 mm - 210 x 210 px - 72 dpi

| 8.0 MB | .png | 166.557 x 521.158 mm - 2000 x 6258 px - 305 dpi

Dimensional drawing basic component



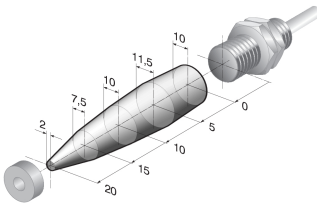
ID: lbns1g02

| 31.2 kB | .cdr |

| 5.6 kB | .png | 74.083 x 51.506 mm - 210 x 146 px - 72 dpi

| 67.5 kB | .jpg | 352.778 x 245.886 mm - 1000 x 697 px - 72 dpi

Characteristic curve



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| 17.5 kB | .png | 74.083 x 46.567 mm - 210 x 132 px - 72 dpi

| 135.8 kB | .jpg | 352.778 x 221.192 mm - 1000 x 627 px - 72 dpi

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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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