DATASHEET



BNS 180-11Z

- 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
- uncodiert, verdeckter Einbau gem. ISO 14119

Data

Ordering data

Product type description	BNS 180-11Z
Article number (order number)	101120933
EAN (European Article Number)	4030661049359
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

Approvals - Standards

Certificates	TÜV BG cULus

General data

Standards	BG-GS-ET-14 EN IEC 60947-5-3

Coding level according to EN ISO 14119	None
Working principle	Magnetic drive
Installation conditions (mechanical)	quasi-flush
Enclosure material	Glass-fibre, reinforced thermoplastic
Gross weight	50 g

General data - Features

Number of normally closed (NC)	1
Number of normally open (NO)	1
Number of safety contacts	2
Number of cable wires	4

Safety classification

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

Safety classification - Safety outputs

B_{10D}- Value Normally-closed contact/Normally open contact (NC/NO)	25,000,000 Operations

Mechanical data

Actuating element	Magnet
Switching distance actuator	Actuating magnet BP 6, Sao: 10 mm Actuating magnet BP 6, Sar: 22 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
Direction of motion	Head-on to the active surface

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

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

Mechanical data - Connection technique

Termination	Cable
Length of cable	1 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	-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
Restistance 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:
BNS 180-(1)Z-(2)

(1)

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

(2)

2187-2	Individual contact outlet

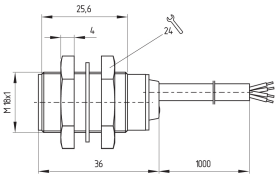
Pictures

Product picture (catalogue individual photo)



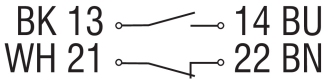
ID: kbns1f02
| 228.7 kB | .jpg | 130.881 x 409.575 mm - 371 x 1161 px - 72 dpi
| 88.8 kB | .png | 74.083 x 231.775 mm - 210 x 657 px - 72 dpi

Dimensional drawing basic component



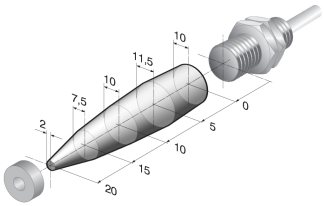
ID: 1bns1g02
| 31.2 kB | .cdr |
| 5.6 kB | .png | 74.083 x 51.506 mm - 210 x 146 px - 72 dpi
| 67.5 kB | .jpg | 352.778 x 245.886 mm - 1000 x 697 px - 72 dpi

Diagram



ID: k1o1sk19
| 53.4 kB | .jpg | 352.778 x 83.961 mm - 1000 x 238 px - 72 dpi
| 2.8 kB | .png | 74.083 x 17.639 mm - 210 x 50 px - 72 dpi

Characteristic curve



ID: kbns1a01
| 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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