



BNS 180-02Z

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

Data

Ordering data

	BNS 180-02Z
	101133009
EAN (European Article Number)	4030661279640
eCl@ss number, Version 9.0	27-27-24-02

Approval - Standards

TÜV
cULus
EAC

General data

	BNS 180
	IEC 60947-5-3
	BG-GS-ET-14
Installation conditions (mechanical)	quasi-flush
Enclosure material	Glass-fibre, reinforced thermoplastic
Gross weight	64.3 g

General data - Features

Coding	None
Number of openers	2
Number of safety contacts	2
Number of cable wires	4

Safety appraisal

ISO 13849-1

Mission Time

20 Year(s)

Safety appraisal - Safety outputs

B10d Normally-closed contact
(NC)

25,000,000 Operations

Mechanical data

Actuating element

Magnet

Ensured switch distance "ON" S

20 mm

ao

Ensured switch distance "OFF" S

32 mm

ar

Actuating magnet BP 8, Sao: 10 mm

Actuating magnet BP 15 SS, Sao: 20 mm

Actuating magnet BP 10, Sao: 20 mm

Actuator switch distance

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 - Connection technique

Terminal Connector

Cable

Length of cable

1 m

Wire cross-section

0.3 mm²

Wire cross-section

23 AWG

PVC

Mechanical data - Dimensions

M18

Length of sensor

36 mm

Ambient conditions

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 30 g / 11 ms
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Electrical data

Voltage type	AC (alternating current) DC (direct current)
Switching voltage, maximum	100 VAC
Switching voltage, maximum	100 VDC
Switching current, maximum	0.3 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

BP 10
BP 8
BP 6
BP 15 SS
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 EN 1088)
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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

Photo/Product/Catalogue

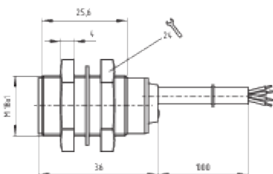


ID: kbns1f02

| 228,7 kB | .jpg | 130.881 x 409.575 mm - 371 x 1161 Pixel - 72 dpi

| 88,8 kB | .png | 74.083 x 231.775 mm - 210 x 657 Pixel - 72 dpi

Dimension/Product/Basic



ID: 1bns1g02

| 31,2 kB | .cdr |

| 67,5 kB | .jpg | 352.778 x 245.886 mm - 1000 x 697 Pixel - 72 dpi

| 5,6 kB | .png | 74.083 x 51.506 mm - 210 x 146 Pixel - 72 dpi

Graphic/Product/Contact

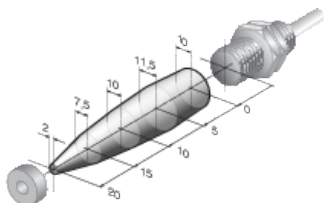


ID: k2o--k08

| 51,9 kB | .jpg | 352.778 x 83.961 mm - 1000 x 238 Pixel - 72 dpi

| 17,5 kB | .cdr |

Diagramm/Product/Curve



ID: kbns1a01

| 17,5 kB | .png | 74.083 x 46.567 mm - 210 x 132 Pixel - 72 dpi

| 137,7 kB | .cdr |

| 135,8 kB | .jpg | 352.778 x 221.192 mm - 1000 x 627 Pixel - 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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