



BNS 180-12Z

- 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 180-12Z
	101120913
EAN (European Article Number)	4030661049342
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	63.5 g

General data - Features

Coding	None
Number of openers	2
Number of shutters	1
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- Value Normally-closed

contact/Normally open contact (NC/NO)

25,000,000 Operations

Mechanical data

Actuating element

Magnet

Ensured switch distance "ON" S_{ao}

20 mm

Ensured switch distance "OFF" S_{ar}

32 mm

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 - 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

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	5 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

	Contact symbols shown for the closed condition of the guard device.
Note (General)	The safety sensor must be mounted in such a way that actuation with another magnet is impossible (concealed mounting according to EN 1088)

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

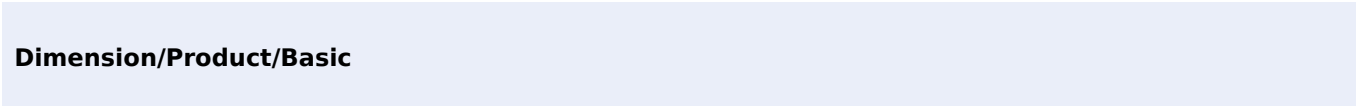
02 2 NC contact

(2)

2187-2 Individual contact outlet

Pictures

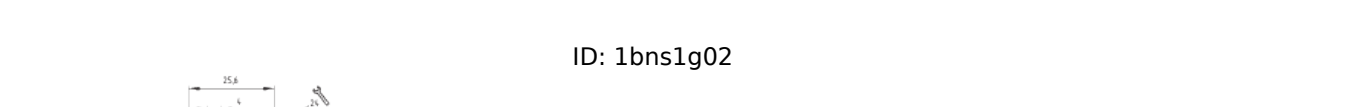
Photo/Product/Catalogue



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

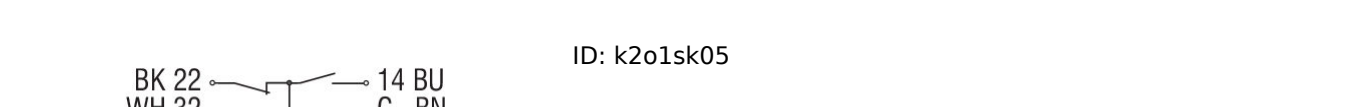
| 88,8 kB | .png | 74.083 x 231.775 mm - 210 x 657
Pixel - 72 dpi

Dimension/Product/Basic



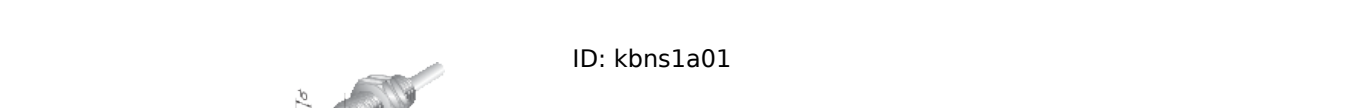
| 31,2 kB | .cdr |
| 67,5 kB | .jpg | 352.778 x 245.886 mm - 1000 x 697
Pixel - 72 dpi
| 5,6 kB | .png | 74.083 x 51.506 mm - 210 x 146 Pixel
- 72 dpi

Graphic/Product/Contact



| 43,5 kB | .jpg | 352.778 x 61.736 mm - 1000 x 175
Pixel - 72 dpi

Diagramm/Product/Curve	Diagramm	Product	Curve
1		Product 1	Curve 1
2		Product 2	Curve 2
3		Product 3	Curve 3
4		Product 4	Curve 4
5		Product 5	Curve 5
6		Product 6	Curve 6
7		Product 7	Curve 7
8		Product 8	Curve 8
9		Product 9	Curve 9



| 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

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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