



BNS 180-02Z

- 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 180-02Z
Article number (order number)	101133009
EAN (European Article Number)	4030661279640
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

Approvals - Standards

Certificates	cULus
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General data

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

General data

Gross weight	64 g
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General data - Features

Coding	Yes
Number of normally closed (NC)	2
Number of safety contacts	2

Safety classification

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

Safety classification - Safety outputs

B10D Normally-closed contact (NC)	25,000,000 Operations
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Mechanical data

Actuating element	Magnet
Switching distance actuator	Actuating magnet BP 8, Sao: 10 mm
	Actuating magnet BP 15 SS, Sao: 20 mm
	Actuating magnet BP 10, Sar: 32 mm
	Actuating magnet BP 10, Sao: 20 mm
	Actuating magnet BP 15 SS, Sar: 32 mm
	Actuating magnet BP 6, Sar: 22 mm
	Actuating magnet BP 6, Sao: 10 mm
	Actuating magnet BP 8, Sar: 22 mm
Direction of motion	Head-on to the active surface

Mechanical data - Switching distances

Assured switching distance "ON" Sao	20 mm
Assured switching distance "OFF" Sar	32 mm
Note (switching distance)	All switching distances in accordance EN IEC 60947-5-3

Mechanical data - Connection technique

Length of cable	1 m
Termination	cable

Mechanical data - Connection technique

Number of cable wires	4
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

IP 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 voltage, maximum	100 VAC
Switching voltage, maximum	100 VDC
Switching current, maximum	0.25 A
Switching capacity, maximum	3 W
Switching element	2 NC contact
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
	BP 8
	BP 6
Recommended safety switchgear	SRB-E-301ST
	SRB-E-201LC

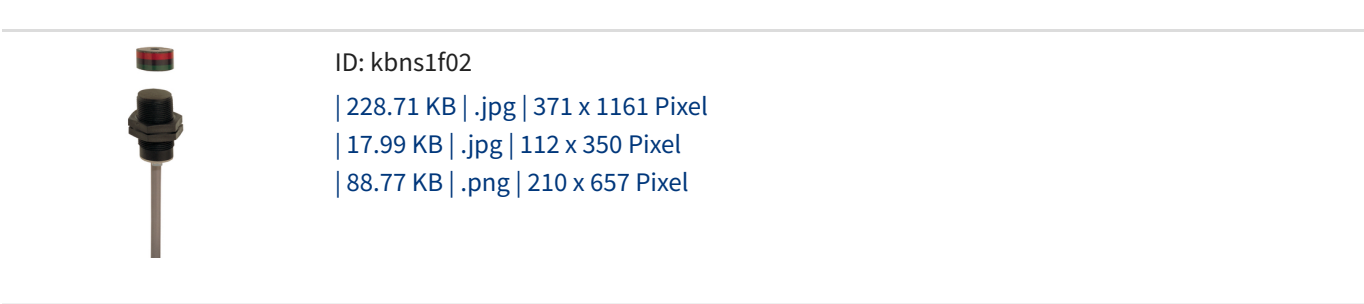
Note

Note (General)	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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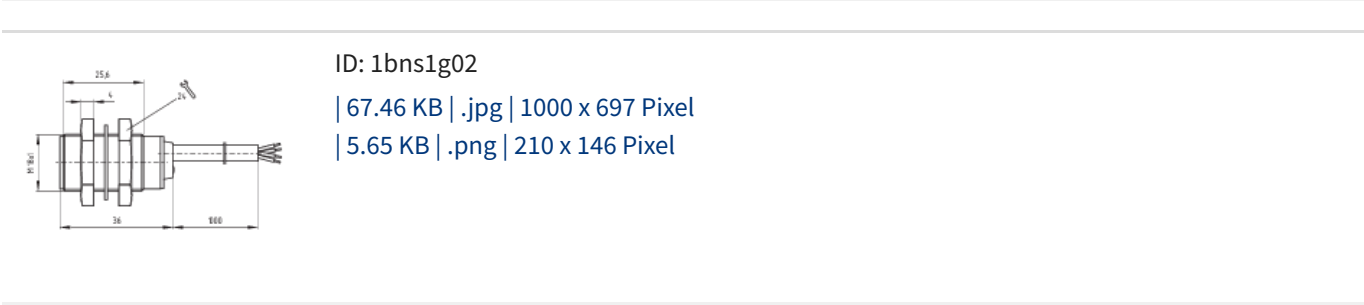
Contact symbols shown for the closed condition of the guard device.

Pictures

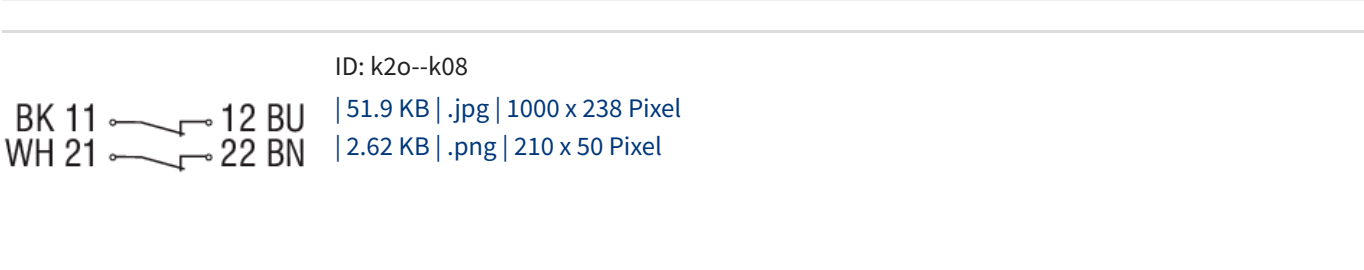
Product picture (catalogue individual photo)



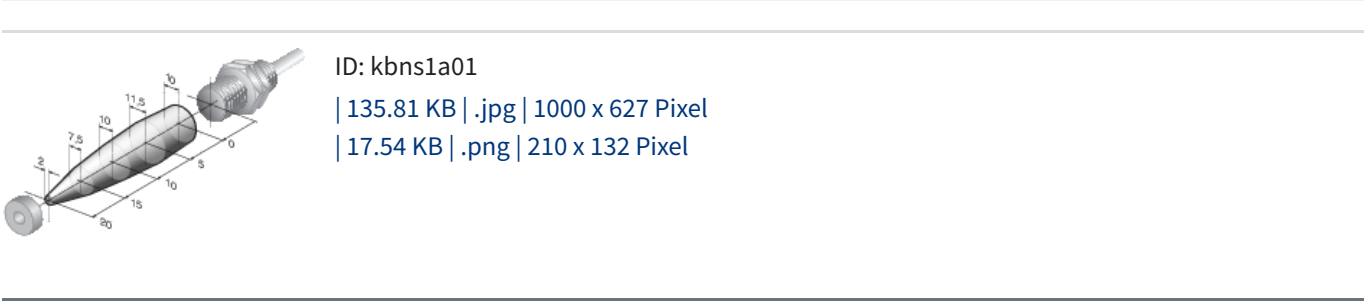
Dimensional drawing basic component



Diagram



Characteristic curve



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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