DATASHEET



BNS 303-11ZG 2,0M

- LED version
- Thermoplastic enclosure
- Long life
- Suitable for food processing industry only in combination with BPS 303 SS
- no mechanical wear
- Ø M30
- Insensitive to transverse misalignment
- Insensitive to soiling

Data

Ordering data

Product type description	BNS 303-11ZG 2,0M
Article number (order number)	101148174
EAN (European Article Number)	4030661145839
eCl@ss number, Version 9.0	27-27-24-02
eCl@ss number, Version 11.0	27-27-24-02
ETIM number, version 6.0	EC002544
ETIM number, version 7.0	EC002544

Approval - Standards

Certificates	TÜV BG cULus EAC

General data

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

Coding level according to ISO 14119	Low
Active principle	Magnetic drive
Installation conditions (mechanical)	quasi-flush
Enclosure material	Glass-fibre, reinforced thermoplastic
Material of the nuts	Thermoplastic
Gross weight	95 g

General data - Features

Integral System Diagnostics, status	Yes
Number of openers	1
Number of shutters	1
Number of safety contacts	2
Number of cable wires	4

Safety appraisal

Standards	EN 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
Direction of motion	Head-on to the active surface
Tightening torque of nuts, maximum	3 Nm

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

Ensured switch distance "ON" S_{ao}	5 mm
Ensured switch distance "OFF" S_{ar}	15 mm

Mechanical data - Connection technique

Terminal Connector	Cable
Length of cable	2 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	M30
width across flats	36 BK
Length of sensor	44 mm

Ambient conditions

Degree of protection	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
Restistance to shock	30 g / 11 ms
TEMP_AMBIENT_MIN_GEN	-25

Electrical data

Voltage type	DC (direct current)
Switching voltage, maximum	24 VDC
Switching current, maximum	0.01 A
Switching capacity, maximum	0.2 W
Switching frequency, maximum	5 Hz

Electrical data - Digital Output

Versions	Miscellaneous, Reed contacts

Status indication

Note (Integral System Diagnostics, status)	The LED is illuminated when the guard door is open.

Scope of delivery

Included in delivery	Actuators must be ordered separately.
Delivery scope of Mounting material	2x Mounting material M30 x 1.5 nuts

Accessory

Recommendation (actuator)	BPS 300 BPS 303 BPS 303 SS
Recommended safety switchgear	SRB 202C SRB 211AN SRB 400C SRB 207AN SRB-E-301ST SRB-E-201LC

Notes

Note (General)	Contact symbols shown for the closed condition of the guard device. The contact configuration for versions with or without LED is identical.

Ordering code

Product type description:
BNS 303-(1)Z(2)-(3)-(4)

(1)

11	1 NO contacts/1 NC contact
12	1 NO contact/2 NC contacts
02	- / 2 NC contacts
03	- / 3 NC contacts

(2)

without	without LED switching conditions display
G	with LED switching conditions display

(3)

without	with cable
ST	with connector M12

(4)

2187	Individual contact outlet
2211	higher switching distance

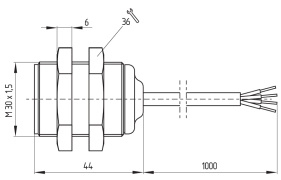
Pictures

Product picture (catalogue individual photo)



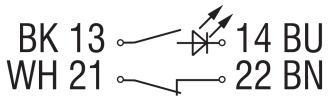
ID: kbns3f03
| 170.5 kB | .jpg | 352.778 x 118.533 mm - 1000 x 336 px - 72 dpi
| 11.3 kB | .png | 74.083 x 24.694 mm - 210 x 70 px - 72 dpi

Dimensional drawing basic component



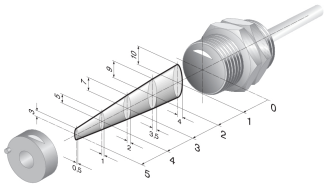
ID: 1bns3g02
| 30.4 kB | .cdr |
| 5.7 kB | .png | 74.083 x 51.506 mm - 210 x 146 px - 72 dpi
| 66.5 kB | .jpg | 352.778 x 245.886 mm - 1000 x 697 px - 72 dpi

Diagram



ID: k1o1sk18
| 61.6 kB | .jpg | 352.778 x 102.658 mm - 1000 x 291 px - 72 dpi

Characteristic curve



ID: kbns3a02
| 17.7 kB | .png | 74.083 x 42.333 mm - 210 x 120 px - 72 dpi
| 148.1 kB | .jpg | 352.778 x 201.436 mm - 1000 x 571 px - 72 dpi

Schmersal Ltd., Sparrowhawk Close, WR14 1GL Malvern
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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