



BNS 303-11Z

- 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 303-11Z
Article number (order number)	101115682
EAN (European Article Number)	4030661049052
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	BG-GS-ET-14 EN IEC 60947-5-3
Coding level according to EN ISO 14119	Low

Working principle	Magnetic drive
Installation conditions (mechanical)	quasi-flush
Housing material	Glass-fibre, reinforced thermoplastic
Material of the nuts	Thermoplastic
Gross weight	87 g

General data - Features

Coding	Yes
Number of normally closed (NC)	1
Number of normally open (NO)	1
Number of safety contacts	2

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
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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

Assured switching distance "ON" S_{ao}	5 mm
Assured switching distance "OFF" S_{ar}	15 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
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	M30
width across flats	36 BK
Length of sensor	44 mm

Ambient conditions

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	0.4 A
Switching capacity, maximum	10 W
Switching element	1 NO contact, 1 NC contacts
Switching principle	Reed contacts, Non-contact principle
Switching frequency, maximum	5 Hz

Scope of delivery

Scope of delivery	Actuator must be ordered separately.
Scope of delivery 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 219IT SRB 308IT SRB 301ST SRB 301AN SRB 202C SRB 211AN SRB 400C SRB 207AN SRB-E-301ST SRB-E-201LC

Note

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

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

(1)

11	1 NO contact/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
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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

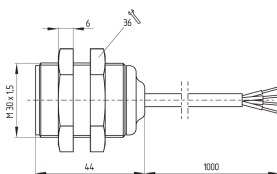
| 11.3 kB | .png | 74.083 x 24.694 mm - 210 x 70 px - 72 dpi

| 18.4 kB | .jpg | 123.472 x 41.628 mm - 350 x 118 px - 72 dpi

| 14.7 kB | .png | 74.083 x 74.083 mm - 210 x 210 px - 72 dpi

| 1.1 MB | .png | 166.557 x 55.88 mm - 2000 x 671 px - 305 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

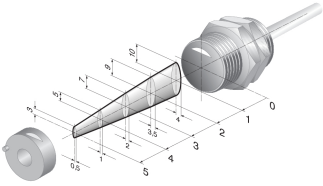


ID: k1o1sk19

| 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: 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

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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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