



## BNS 303-11Z 2,0M

- 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 2,0M
Article number (order number)	101120212
EAN (European Article Number)	4030661049076
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	TÜV BG cULus
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### General data

Standards	BG-GS-ET-14 EN IEC 60947-5-3
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Coding level according to EN ISO 14119	Low
Working 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

Number of normally closed (NC)	1
Number of normally open (NO)	1
Number of safety contacts	2
Number of cable wires	4

### 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 according EN IEC 60947-5-3

Assured switching distance "ON" $S_{ao}$	5 mm
Assured switching distance "OFF" $S_{ar}$	15 mm

## Mechanical data - Connection technique

Length of cable	2 m
Termination	Cable
Wire cross-section	0.25 mm <sup>2</sup>
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, minimum	-25 °C
Storage and transport temperature, maximum	+70 °C
Resistance to vibrations	10 ... 55 Hz, amplitude 1 mm
Restistance 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 frequency, maximum	5 Hz

## Electrical data - Digital Output

Design of control elements

Miscellaneous, Reed contacts

## 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 301AN 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)

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

(2)

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<b>without</b>	without LED switching conditions display
<b>G</b>	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)

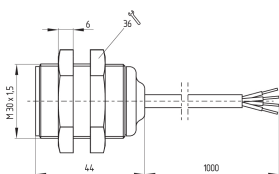


ID: kbns3f03

| 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



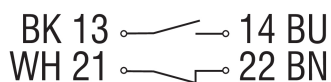
ID: 1bns3g02

| 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

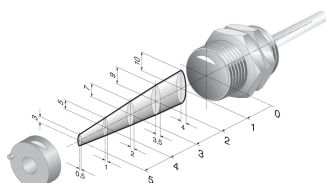


ID: k1o1sk19

| 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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