



## BNS 303-12ZG

- 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 303-12ZG
Article number (order number)	101138261
EAN (European Article Number)	4030661281131
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
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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	66 g

### General data - Features

Coding	Yes
Integral system diagnostics, general	Yes
Number of normally closed (NC)	2
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 <sub>10D</sub> - 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	1 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	-25 ... +70 °C
Resistance to vibrations	10 ... 55 Hz, amplitude 1 mm
Resistance to shock	30 g / 11 ms

### Electrical data

Switching voltage, maximum	24 VDC
Switching current, maximum	0.01 A
Switching capacity, maximum	0.24 W
Switching element	1 NO contact, 2 NC contacts
Switching frequency, maximum	5 Hz

## Electrical data - Digital Output

Design of control elements

Miscellaneous, Reed contacts

## Status indication

Note (Integral System Diagnostics, status )

The LED is illuminated when the guard door is open.

## 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-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.

## 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)

**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)



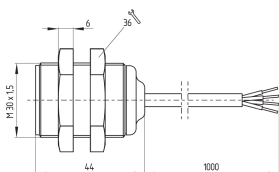
ID: kbns3f03

| 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

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

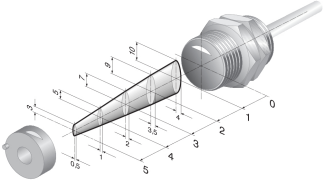


ID: k2o1sk06

| 48.4 kB | .jpg | 352.778 x 77.258 mm - 1000 x 219 px - 72 dpi

| 2.9 kB | .png | 74.083 x 16.228 mm - 210 x 46 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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