

## BNS 303-12Z 2,0M



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

### Data

#### Ordering data

|                               |                  |
|-------------------------------|------------------|
|                               | BNS 303-12Z 2.0M |
|                               | 101120012        |
| EAN (European Article Number) | 4030661048994    |
| eCl@ss number, Version 9.0    | 27-27-24-02      |

#### Approval - Standards

TÜV  
cULus  
EAC

#### General data

|                                      |                                       |
|--------------------------------------|---------------------------------------|
|                                      | BNS 303                               |
|                                      | IEC 60947-5-3                         |
|                                      | BG-GS-ET-14                           |
| Installation conditions (mechanical) | quasi-flush                           |
| Enclosure material                   | Glass-fibre, reinforced thermoplastic |
| Material of the nuts                 | Thermoplastic                         |
| Gross weight                         | 100 g                                 |

#### General data - Features

|                       |     |
|-----------------------|-----|
| Coding                | Yes |
| Number of openers     | 2   |
| Number of shutters    | 1   |
| Number of cable wires | 4   |

## Safety appraisal

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

Ensured switch distance "ON"  $S_{ao}$

5 mm

Ensured switch distance "OFF"  $S_{ar}$

15 mm

Direction of motion

Head-on to the active surface

Tightening torque of nuts, maximum

3 Nm

## Mechanical data - Connection technique

Terminal Connector

Cable

Length of cable

2 m

Wire cross-section

0.3 mm<sup>2</sup>

Wire cross-section

23 AWG

PVC

## Mechanical data - Dimensions

M30

width across flats

36 BK

Length of sensor

44 mm

## Ambient conditions

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

30 g / 11 ms

## Electrical data

Voltage type

AC (alternating current)

DC (direct current)

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

|          |                              |
|----------|------------------------------|
| Versions | Miscellaneous, Reed contacts |
|----------|------------------------------|

### 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

BPS 300  
BPS 303  
BPS 303 SS  
SRB-E-301ST  
SRB-E-201LC

### Notes

|                |                                                                                                                                                 |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Note (General) | Contact symbols shown for the closed condition of the guard device.<br>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

### Photo/Product/Catalogue

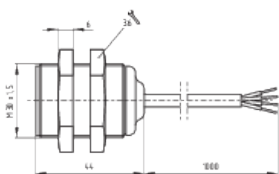


ID: kbns3f03

| 170,5 kB | .jpg | 352.778 x 118.533 mm - 1000 x 336  
Pixel - 72 dpi

| 11,3 kB | .png | 74.083 x 24.694 mm - 210 x 70 Pixel  
- 72 dpi

### Dimension/Product/Basic



ID: 1bns3g02

| 30,4 kB | .cdr |  
| 5,7 kB | .png | 74.083 x 51.506 mm - 210 x 146 Pixel  
- 72 dpi

| 66,5 kB | .jpg | 352.778 x 245.886 mm - 1000 x 697  
Pixel - 72 dpi

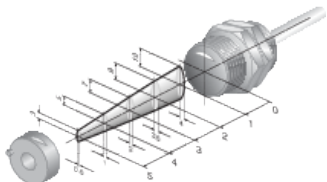
### Graphic/Product/Contact



ID: k2o1sk05

| 43,5 kB | .jpg | 352.778 x 61.736 mm - 1000 x 175  
Pixel - 72 dpi

### Diagramm/Product/Curve



ID: kbns3a02

| 148,1 kB | .jpg | 352.778 x 201.436 mm - 1000 x 571  
Pixel - 72 dpi

| 118,4 kB | .cdr |  
| 17,7 kB | .png | 74.083 x 42.333 mm - 210 x 120  
Pixel - 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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+010001am31