



## BNS 303-11ZG-ST-2211

- Connector M12, 4-pole
- 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-ST-2211
Article number (order number)	101194346
EAN (European Article Number)	4030661358581
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	37 g

### General data - Features

Coding	Yes
Integral system diagnostics, status	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

### Mechanical data - Switching distances

Assured switching distance "ON" $S_{ao}$	8 mm
Assured switching distance "OFF" $S_{ar}$	18 mm

Note (switching distance)

All switching distances in accordance EN IEC 60947-5-3

### Mechanical data - Connection technique

Termination	Connector M12, 4-pole
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
Restistance 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, 1 NC contacts
Switching principle	Reed contacts, Non-contact principle
Switching frequency, maximum	5 Hz

### 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 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)

<b>11</b>	1 NO contact/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)

<b>without</b>	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: kbns3f32

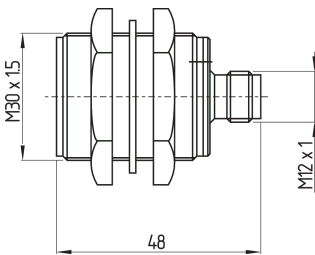
| 360.8 kB | .jpg | 352.425 x 361.597 mm - 999 x 1025 px - 72 dpi

| 48.2 kB | .png | 74.083 x 75.847 mm - 210 x 215 px - 72 dpi

| 44.1 kB | .png | 74.083 x 74.083 mm - 210 x 210 px - 72 dpi

| 4.1 MB | .png | 169.249 x 173.651 mm - 1999 x 2051 px - 300 dpi

### Dimensional drawing basic component



ID: kbns3g10

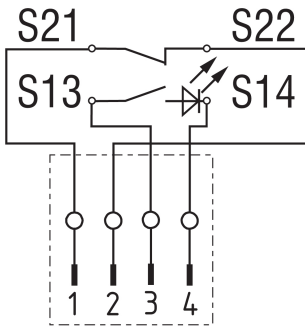
| 83.4 kB | .ai | 210 x 297 mm - 595 x 841 px - 72 dpi

| 3.6 kB | .png | 74.083 x 56.797 mm - 210 x 161 px - 72 dpi

| 105.8 kB | .jpg | 352.778 x 270.228 mm - 1000 x 766 px - 72 dpi

| 6.1 kB | .jpg | 75.847 x 58.208 mm - 215 x 165 px - 72 dpi

### Diagram

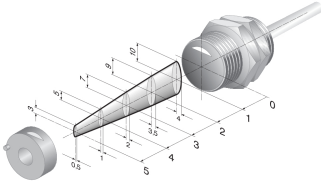


ID: kbns3k10

| 127.0 kB | .jpg | 352.425 x 369.006 mm - 999 x 1046 px - 72 dpi

| 4.3 kB | .png | 73.731 x 77.258 mm - 209 x 219 px - 72 dpi

## Characteristic curve

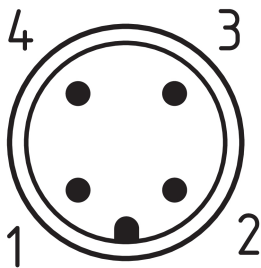


ID: kbns3a02

| 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

## Contact arrangement



ID: km12-k4c

| 4.2 kB | .png | 74.083 x 74.083 mm - 210 x 210 px - 72 dpi

| 113.3 kB | .jpg | 352.778 x 352.778 mm - 1000 x 1000 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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