



BNS 303-12ZG 10,0M

- 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 10,0M |
| Article number (order number) | 101186932 |
| EAN (European Article Number) | 4030661334042 |
| 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 |
|--------------|-------|

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 | 380 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 _{10D} - Value Normally-closed contact/Normally open contact (NC/NO) | 25,000,000 Operations |
|--|-----------------------|

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 | 10 m |
| Termination | Cable |
| 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 | 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)

| | |
|-----------|----------------------------|
| 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

Product picture (catalogue individual photo)



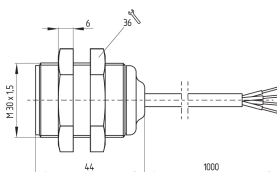
ID: kbns3f03

| 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

