



BNS 303-11ZG

- 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 303-11ZG |
| Article number (order number) | 101138262 |
| EAN (European Article Number) | 4030661281148 |
| 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 | 60 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 |
|--|-----------------------|

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

| | |
|---|------|
| Assured switching distance "ON" S _{ao} | 5 mm |
|---|------|

| | |
|---|--|
| Assured switching distance "OFF" S_{ar} | 15 mm |
| Note (switching distance) | All switching distances in accordance EN IEC 60947-5-3 |

Mechanical data - Connection technique

| | |
|------------------------------|----------------------|
| Length of cable | 1 m |
| Termination | cable |
| Number of cable wires | 4 |
| 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 |
| 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.

Ordering code

Product type description:

BNS 303-(1)Z(2)-(3)-(4)

(1)

11

1 NO contact/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

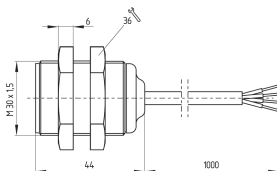
| 11.3 kB | .png | 74.083 x 24.694 mm - 210 x 70 px - 72 dpi

| 18.4 kB | .jpg | 123.472 x 41.628 mm - 350 x 118 px - 72 dpi

| 14.7 kB | .png | 74.083 x 74.083 mm - 210 x 210 px - 72 dpi

| 1.1 MB | .png | 166.557 x 55.88 mm - 2000 x 671 px - 305 dpi

Dimensional drawing basic component



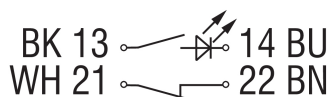
ID: 1bns3g02

| 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

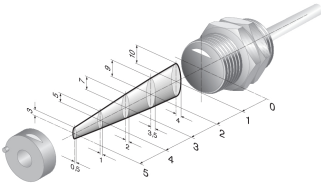


ID: k1o1sk18

| 61.6 kB | .jpg | 352.778 x 102.658 mm - 1000 x 291 px - 72 dpi

| 3.2 kB | .png | 74.083 x 21.519 mm - 210 x 61 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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