## BNS 303-12Z 5,0M



- **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 5.0M |
| | 101123707 |
| EAN (European Article Number) | 4030661049014 |
| eCl@ss number, Version 9.0 | 27-27-24-02 |
| **Approval - Standards** | |
| | TÜV<br>cULus<br>EAC |
| **General data** | |
| | BNS 303 |
| | IEC 60947-5-3<br>BG-GS-ET-14 |
| Installation conditions (mechanical) | quasi-flush |
| Enclosure material | Glass-fibre, reinforced thermoplastic |
| Material of the nuts | Thermoplastic |
| Gross weight | 220 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 | 5 m |
| Wire cross-section | 0.3 $mm^2$ |
| 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)<br>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<br>BPS 303<br>BPS 303 SS<br>SRB-E-301ST<br>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**

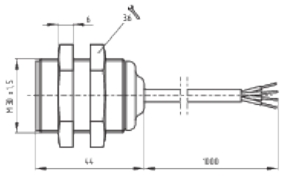
**Photo/Product/Catalogue**



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

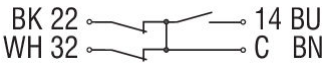
**Dimension/Product/Basic**



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

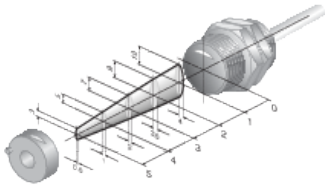
**Graphic/Product/Contact**




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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