



BNS 303-12ZG-2187 5,0M

- 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-2187 5,0M |
| Article number (order number) | 101182782 |
| EAN (European Article Number) | 4030661318240 |
| 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 | 250 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 | 6 |

Safety classification

| | |
|--------------|----------------|
| Standards | EN ISO 13849-1 |
| Mission time | 20 Year(s) |

Mechanical data

| | |
|---------------------|-------------------------------|
| Actuating element | Magnet |
| Direction of motion | Head-on to the active surface |

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 | 5 m |
|-----------------|-----|

| | |
|------------------------------|----------------------|
| 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 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 202C SRB 211AN SRB 400C |

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)



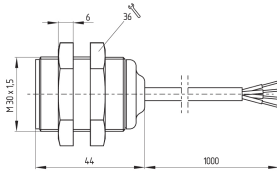
ID: kbns3f03

| 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



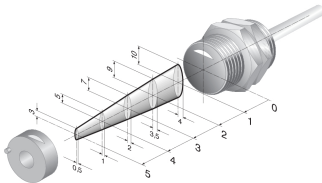
ID: 1bns3g02

| 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

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

Schmersal India Pvt. Ltd., Plot No - G-7/1, Ranjangaon MIDC, Tal. - Shirur, Dist.- Pune 412 220

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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