

BNS 250-12Z-2187 3,0M

- Thermoplastic enclosure
- small body
- Concealed mounting possible
- 33 mm x 25 mm x 13 mm
- Long life
- no mechanical wear
- Insensitive to transverse misalignment
- Insensitive to soiling

Data

Ordering data

| | |
|-------------------------------|-----------------------|
| Product type description | BNS 250-12Z-2187 3,0M |
| Article number (order number) | 101164208 |
| EAN (European Article Number) | 4030661205151 |
| 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) | not flush |
| Housing material | Glass-fibre, reinforced thermoplastic |
| Gross weight | 130 g |

General data - Features

| | |
|--------------------------------|-----|
| Coding | Yes |
| Prerequisite evaluation unit | Yes |
| Number of normally closed (NC) | 2 |
| Number of normally open (NO) | 1 |
| Number of cable wires | 6 |

Safety classification

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

Safety classification - Safety outputs

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

Mechanical data

| | |
|---------------------|-------------------------------|
| Active area | front side |
| 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} | 4 mm |
|-------------------------------------------------|------|

Assured switching distance "OFF" S_{ar} 14 mm

Mechanical data - Connection technique

| | |
|------------------------------|----------------------|
| Length of cable | 3 m |
| Termination | Cable |
| Wire cross-section | 0.25 mm ² |
| Wire cross-section | 23 AWG |
| Material of the Cable mantle | PVC |

Mechanical data - Dimensions

| | |
|------------------|-------|
| Length of sensor | 13 mm |
| Width of sensor | 33 mm |
| Height of sensor | 25 mm |

Ambient conditions

| | |
|-----------------------------------|----------------------------------|
| Degree of protection | IP67 |
| Ambient temperature | -25 ... +70 °C |
| Storage and transport temperature | -25 ... +70 °C |
| Resistance to vibrations | 10 ... 150 Hz, amplitude 0.35 mm |
| Resistance to shock | 30 g / 11 ms |

Electrical data

| | |
|------------------------------|-----------------------------|
| Switching voltage, maximum | 24 VDC |
| Switching current, maximum | 0.1 A |
| Switching capacity, maximum | 1 W |
| Switching element | 1 NO contact, 2 NC contacts |
| Switching frequency, maximum | 5 Hz |

Electrical data - Digital Output

Scope of delivery

Scope of delivery Actuator must be ordered separately.

Accessory

| | |
|-------------------------------|----------------------------|
| Recommendation (actuator) | BPS 250 |
| 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 250-(1)Z(2)-(3)

(1)

| | |
|-----------|----------------------------|
| 11 | 1 NO contacts/1 NC contact |
| 12 | 1 NO contact/2 NC contacts |

(2)

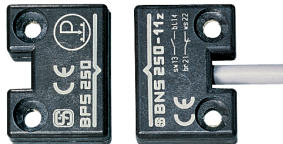
| | |
|----------------|------------------------------------------|
| without | without LED switching conditions display |
| G | with LED switching conditions display |

(3)

| | |
|-------------|--------------------------------------------------------------------------|
| 2187 | Individual contact outlet (without LED switching conditions display LED) |
|-------------|--------------------------------------------------------------------------|

Pictures

Product picture (catalogue individual photo)



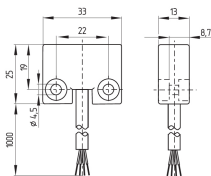
ID: kbns2f01

| 169.9 kB | .jpg | 193.322 x 127 mm - 548 x 360 px - 72 dpi

| 32.6 kB | .png | 74.083 x 48.683 mm - 210 x 138 px - 72 dpi

| 60.3 kB | .jpg | 123.472 x 81.139 mm - 350 x 230 px - 72 dpi

Dimensional drawing basic component

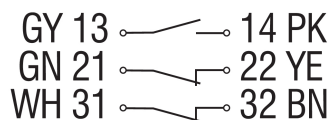


ID: 1bns2g01

| 8.7 kB | .png | 74.083 x 51.506 mm - 210 x 146 px - 72 dpi

| 68.6 kB | .jpg | 352.778 x 245.886 mm - 1000 x 697 px - 72 dpi

Diagram



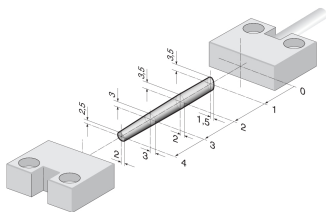
ID: k2o1sk07

| 26.0 kB | .cdr |

| 82.8 kB | .jpg | 352.778 x 125.589 mm - 1000 x 356 px - 72 dpi

| 3.5 kB | .png | 74.083 x 26.458 mm - 210 x 75 px - 72 dpi

Characteristic curve



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| 13.5 kB | .png | 74.083 x 47.625 mm - 210 x 135 px - 72 dpi

| 110.0 kB | .jpg | 352.778 x 227.189 mm - 1000 x 644 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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