

BNS 250-12Z 5,0M

- 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 5,0M
Article number (order number)	101126604
EAN (European Article Number)	4030661050133
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
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General data

Standards	BG-GS-ET-14 EN IEC 60947-5-3
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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	185 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	4

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
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Assured switching distance "OFF" S _{ar}	14 mm
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Mechanical data - Connection technique

Length of cable	5 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

Actuator must be ordered separately.

Recommendation (actuator)

BPS 250

Recommended safety switchgear

SRB-E-301ST

SRB-E-201LC

Note (General)

Contact symbols shown for the closed condition of the guard device.

The contact configuration for versions with or without LED is identical.

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

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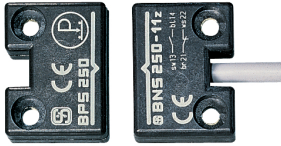
with LED switching conditions display

(3)

2187

Individual contact outlet (without LED switching conditions display LED)

Pictures

Product picture (catalogue individual photo)

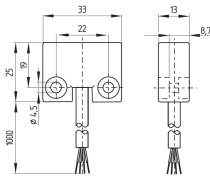
ID: kbns2f01

| 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

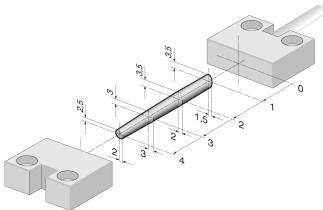


ID: k2o1sk06

| 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



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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

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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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