

BNS 250-11Z

- 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

Approvals - Standards

Certificates	TÜV BG cULus
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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
Enclosure material	Glass-fibre, reinforced thermoplastic
Gross weight	60 g

General data - Features

Prerequisite evaluation unit	Yes
Number of normally closed (NC)	1

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} - 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

Termination Cable

Length of cable 1 m

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, minimum	-25 °C
Storage and transport temperature, maximum	+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 frequency, maximum	5 Hz

Electrical data - Digital Output

Design of control elements	Miscellaneous, Reed contacts
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Scope of delivery

Scope of delivery	Actuator must be ordered separately.
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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

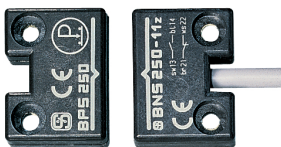
G with LED switching conditions display

(3)

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

Pictures

Product picture (catalogue individual photo)

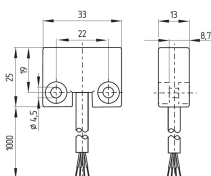


ID: kbns2f01

| 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

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

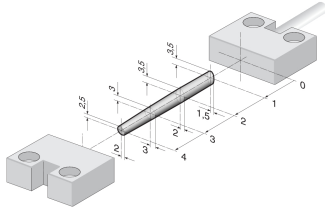
BK 13 — 14 BU
WH 21 — 22 BN

ID: k1o1sk19

| 53,4 kB | .jpg | 352.778 x 83.961 mm - 1000 x 238 px - 72 dpi

| 2,8 kB | .png | 74.083 x 17.639 mm - 210 x 50 px - 72 dpi

Characteristic curve



ID: kbns2a01

| 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.

Generated on: 10/05/2023, 08:04