



## EX-BNS 250-11Z-3GD 3M

- Explosion protection for ATEX Zones 2 and 22
- Thermoplastic enclosure
- Insensitive to transverse misalignment
- no mechanical wear
- 64 mm x 29.5 mm x 15.5 mm (incl. protective enclosure)

## Data

### Ordering data

Product type description	EX-BNS 250-11Z-3GD 3M
Article number (order number)	103045518
EAN (European Article Number)	4030661565064
eCl@ss number, version 11.0	27-27-24-02
eCl@ss number, version 9.0	27-27-24-02
ETIM number, version 6.0	EC002544

### Explosion protection

Explosion protection: regulations	EN IEC 60079-0 EN IEC 60079-15 EN 60079-31
Explosion protection zones	2 22
Explosion protection category	3G 3D
Explosion protection designation	⊕ II 3G Ex nC IIC T6 Gc X ⊕ II 3D Ex tc IIIC T80°C Dc X
Manufacturer declaration	ATEX Zone 2 and 22

## General data

Housing construction form	Block
Installation conditions (mechanical)	not flush
Housing material	Glass-fibre, reinforced thermoplastic
Gross weight	184 g

## General data - Features

Coding	Yes
Short circuit detection	Yes
Cross-circuit detection	Yes
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 <sub>10D</sub> - Value Normally-closed contact/Normally open contact (NC/NO)	25,000,000 Operations
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## Mechanical data

Actuating element	Magnet
Impact energy, maximum	7 J
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
Wire cross-section	0.25 mm <sup>2</sup>
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 ... 55 Hz, amplitude 1 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

## Scope of delivery

Scope of delivery

Actuator must be ordered separately.

## Accessory

Recommendation (actuator)

EX-BPS 250-3G/D

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:  
EX-BNS 250-(1)Z(2)-(3)3G/D

(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)



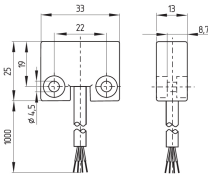
ID: kxbns2f01

| 241.8 kB | .jpg | 352.778 x 211.314 mm - 1000 x 599 px - 72 dpi

| 31.2 kB | .png | 74.083 x 44.45 mm - 210 x 126 px - 72 dpi

| 43.6 kB | .jpg | 123.472 x 74.083 mm - 350 x 210 px - 72 dpi

## Dimensional drawing basic component

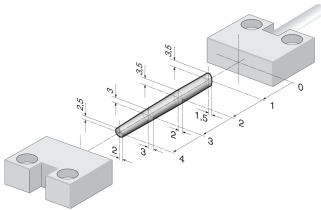


ID: 1bns2g01

| 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

## 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.

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