DATASHEET



EX-BNS 250-12Z-2187-3GD

- Explosion protection for ATEX Zones 2 and 22
- Thermoplastic enclosure
- Insensitive to transverse misalignment
- no mechanical wear
- as simple electrical apparatus for intrinsically safe current circuits (Ex i) to Ex-Zone 0 and 20
- 64 mm x 29.5 mm x 15.5 mm (incl. protective enclosure)

Data

Ordering data

Product type description	EX-BNS 250-12Z-2187-3GD
Article number (order number)	103045528
EAN (European Article Number)	4030661565163

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	Additional simple electrical apparatus (Zone 0 and 20)

General data

Housing construction form	Block

Installation conditions (mechanical)	not flush
Housing material	Glass-fibre, reinforced thermoplastic
Gross weight	113 g

General data - Features

Coding	Yes
Short circuit detection	Yes
Cross-circuit detection	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}- Value Normally-closed contact/Normally open contact (NC/NO)	25,000,000 Operations

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^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 … 55 Hz, amplitude 1 mm
Restistance 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

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)

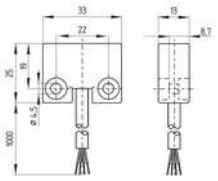
Pictures

Product picture (catalogue individual photo)



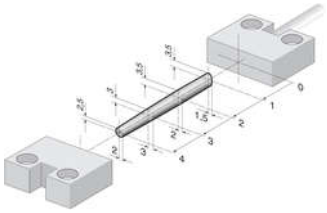
ID: kxbns2f01
| 241.8 kB | .jpg | 352.778 x 211.314 mm - 1000 x 599 px - 72 dpi
| 31.2 kB | .png | 74.083 x 44.45 mm - 210 x 126 px - 72 dpi
| 43.6 kB | .jpg | 123.472 x 74.083 mm - 350 x 210 px - 72 dpi

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