DATASHEET



EX-BNS 250-12Z-2187-3G/D 5,0M

- Individual contact outlet
- Explosion protection for ATEX Zones 2 and 22
- Thermoplastic enclosure
- 33 mm x 25 mm x 13 mm
- Small body
- Concealed mounting possible
- Insensitive to transverse misalignment
- no mechanical wear
- For intrinsically safe current circuits (Ex i) to Ex-Zone 0 and 20

Data

Ordering data

Product type description	EX-BNS 250-12Z-2187-3G/D 5,0M
Article number (order number)	101190271
EAN (European Article Number)	4030661349091
eCl@ss number, Version 9.0	27-27-24-02
eCl@ss number, Version 11.0	27-27-24-02
ETIM number, version 6.0	EC002544
ETIM number, version 7.0	EC002544

Explosion protection

Explosion protection: regulations	EN 13463-1 EN 13463-5 EN 60079-0 EN 60079-15 EN 60079-31 IEC 60947-5-3

Explosion protection zones	22 2
Explosion protection category	3D 3G
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
Enclosure material	Glass-fibre, reinforced thermoplastic
Gross weight	230 g

General data - Features

Coding	Yes
Short circuit detection	Yes
Short-circuit recognition	Yes
Prerequisite evaluation unit	Yes
Number of openers	2
Number of shutters	1

Safety appraisal

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

Safety appraisal - Safety outputs

B10d- Value Normally-closed contact/Normally open contact (NC/NO)	25,000,000 Operations

Mechanical data

Active area	front side
Actuating element	Magnet
Impact energy, maximum	1 J
Direction of motion	Head-on to the active surface

Mechanical data - Switching distances according IEC 60947-5-3

Ensured switch distance "ON" S_{ao}	4 mm
Ensured switch distance "OFF" S_{ar}	14 mm

Mechanical data - Connection technique

Terminal Connector	Cable
Length of cable	5 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, minimum	-25 °C
Ambient temperature, maximum	+70 °C
Storage and transport temperature, minimum	-25 °C
Storage and transport temperature, maximum	+70 °C

Resistance to vibrations to EN 60068-2-6	10 … 55 Hz, amplitude 1 mm
Restistance to shock	30 g / 11 ms

Electrical data

Voltage type	DC (direct current)
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

Versions	Miscellaneous, Reed contacts

Scope of delivery

Included in delivery	Actuators must be ordered separately.

Accessory

Recommendation (actuator)	EX-BPS 250-3G/D
Recommended safety switchgear	SRB-E-301ST SRB-E-201LC

Notes

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)-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

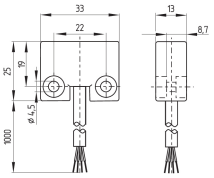
Pictures

Product picture (catalogue individual photo)



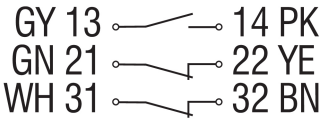
ID: kexbnf02
| 31.6 kB | .png | 73.731 x 110.772 mm - 209 x 314 px - 72 dpi
| 367.7 kB | .jpg | 259.997 x 375.356 mm - 737 x 1064 px - 72 dpi

Dimensional drawing basic component



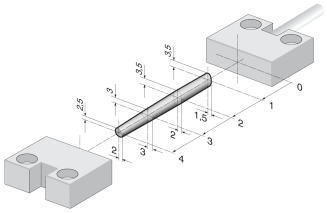
ID: 1bns2g01
| 8.7 kB | .png | 74.083 x 51.506 mm - 210 x 146 px - 72 dpi
| 68.6 kB | .jpg | 352.778 x 245.886 mm - 1000 x 697 px - 72 dpi

Diagram



ID: k2o1sk07
| 26.0 kB | .cdr |
| 82.8 kB | .jpg | 352.778 x 125.589 mm - 1000 x 356 px - 72 dpi

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

Schmersal, Inc., 15 Skyline Drive, Hawthorne, NY 10532
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: 25/10/2021, 18:05