

## EX-BNS33-12ZG-2187-3G/D-5M



- Ex-Zone 2 and 22
- no mechanical wear
- 88 mm x 25 mm x 13 mm
- Thermoplastic enclosure
- Individual contact outlet
- Concealed mounting possible
- Insensitive to transverse misalignment

### Data

#### Ordering data

Product type description	EX-BNS 33-12ZG-2187-3G/D 5.0M
Article number (order number)	101189299
EAN (European Article Number)	4030661347028
eCl@ss number, Version 9.0	27-27-24-02

#### 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

Product name	EX-BNS 33
Housing construction form	Block
Installation conditions (mechanical)	not flush
Enclosure material	Glass-fibre, reinforced thermoplastic

Gross weight 225 g

### General data - Features

Short circuit detection Yes  
Short-circuit recognition Yes  
Integral System Diagnostics, status Yes  
Prerequisite evaluation unit Yes  
Number of openers 2  
Number of shutters 1

### Safety appraisal

Standards 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 lateral  
Actuating element Magnet  
Ensured switch distance "ON"  $S_{ao}$  5 mm  
Ensured switch distance "OFF"  $S_{ar}$  15 mm  
Repeat accuracy  $R$   $\leq 0.1 \times S_{ao}$   
Impact energy, maximum 2 J  
Direction of motion Head-on to the active surface

### Mechanical data - Connection technique

Terminal Connector Cable  
Length of cable 5 m  
Wire cross-section  $0.3 \text{ mm}^2$   
Wire cross-section 23 AWG  
Material of the Cable mantle PVC

### Mechanical data - Dimensions

Height of sensor 25 mm  
Length of sensor 13 mm  
Width of sensor 88 mm

### Ambient conditions

Protection class IP67  
Resistance to vibrations to EN 60068-2-6 10 ... 55 Hz, amplitude 1 mm

Resistance to shock 30 g / 11 ms

### Electrical data

Voltage type	DC (direct current)
Switching voltage, maximum	24 VDC
Switching current, maximum	0 A
Switching capacity, maximum	0.2 W
Switching frequency, maximum	5 Hz

### Electrical data - Digital Output

Versions Miscellaneous, Reed contacts

### Status indication

Note (Integral System Diagnostics, status ) The LED is illuminated when the guard door is open.

### Scope of delivery

Included in delivery Actuators must be ordered separately.

### Accessory

Recommendation (actuator)	EX-BPS 33-3G/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 303-(1)Z(2)-3G/D

(1)

**11** 1 NO contact / 1 NC contact

**12** 1 NO contact/2 NC contacts

(2)

**without** with LED

## Pictures

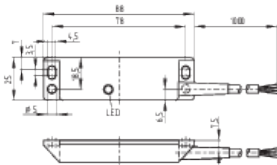
### Product picture (catalogue individual photo)



ID: kbns3f22

| 145,7 kB | .jpg | 352.778 x 78.317 mm - 1000 x 222  
Pixel - 72 dpi  
| 11,8 kB | .png | 74.083 x 16.581 mm - 210 x 47 Pixel  
- 72 dpi

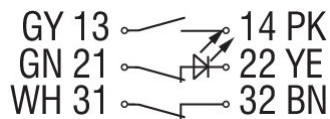
### Dimensional drawing basic component



ID: 1bns3g03

| 88,2 kB | .jpg | 352.778 x 248.003 mm - 1000 x 703  
Pixel - 72 dpi  
| 37,7 kB | .cdr |  
| 7,4 kB | .png | 74.083 x 52.211 mm - 210 x 148 Pixel  
- 72 dpi

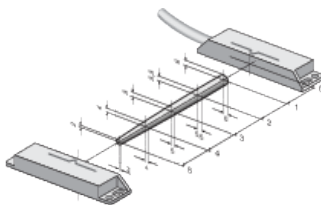
### Diagram



ID: k2o1sk08

| 18,4 kB | .cdr |  
| 86,6 kB | .jpg | 352.778 x 123.825 mm - 1000 x 351  
Pixel - 72 dpi

### Characteristic curve



ID: kbns3a01

| 13,1 kB | .png | 74.083 x 45.508 mm - 210 x 129  
Pixel - 72 dpi  
| 96,3 kB | .cdr |  
| 124,5 kB | .jpg | 352.778 x 216.253 mm - 1000 x 613  
Pixel - 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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