

## BNS 33-12Z



- Long life
- no mechanical wear
- 88 mm x 25 mm x 13 mm
- Insensitive to soiling
- Thermoplastic enclosure
- Concealed mounting possible
- Insensitive to transverse misalignment

### Data

#### Ordering data

|                               |               |
|-------------------------------|---------------|
|                               | BNS 33-12Z    |
|                               | 101109211     |
| EAN (European Article Number) | 4030661026671 |
| eCl@ss number, Version 9.0    | 27-27-24-02   |

#### Approval - Standards

TÜV  
cULus  
EAC

#### General data

|                                      |                                       |
|--------------------------------------|---------------------------------------|
|                                      | BNS 33                                |
|                                      | IEC 60947-5-3                         |
|                                      | BG-GS-ET-14                           |
| Installation conditions (mechanical) | not flush                             |
| Enclosure material                   | Glass-fibre, reinforced thermoplastic |
| Gross weight                         | 62 g                                  |

#### General data - Features

|                              |     |
|------------------------------|-----|
| Prerequisite evaluation unit | Yes |
| Number of openers            | 2   |
| Number of shutters           | 1   |

## Safety appraisal

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"  $S_{ao}$

8 mm

Ensured switch distance "OFF"  $S_{ar}$

18 mm

Repeat accuracy  $R$

$\leq 0.1 \times S_{ao}$

Direction of motion

Head-on to the active surface

## Mechanical data - Connection technique

Terminal Connector

Cable

Length of cable

1 m

Wire cross-section

0.3 mm<sup>2</sup>

Wire cross-section

23 AWG

PVC

## Mechanical data - Dimensions

Height of sensor

25 mm

Length of sensor

13 mm

Width of sensor

88 mm

## Ambient conditions

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

30 g / 11 ms

## Electrical data

Voltage type

AC (alternating current)

DC (direct current)

Switching voltage, maximum

100 VAC

|                              |         |
|------------------------------|---------|
| Switching voltage, maximum   | 100 VDC |
| Switching current, maximum   | 0.4 A   |
| Switching capacity, maximum  | 10 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

BPS 33-2326  
SRB-E-301ST  
SRB-E-201LC

### Notes

|                |                                                                                                                                                 |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Note (General) | Contact symbols shown for the closed condition of the guard device.<br>The contact configuration for versions with or without LED is identical. |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------|

### Ordering code

Product type description:

BNS 33-(1)Z(2)-(3)-(4)

(1)

**02** 2 NC contact

**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)

**without** with cable

**ST** with connector M8

(4)

**2187** Individual contact outlet

**2187-10** Individual contact outlet with LED  
**2237** Actuation from cable direction

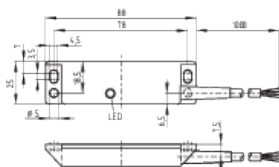
**Pictures**

**Photo/Product/Catalogue**



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

**Dimension/Product/Basic**



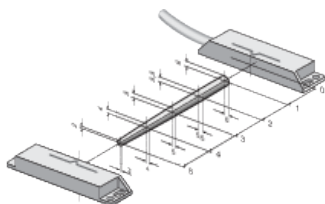
ID: 1bns3g03  
  
| 88,2 kB | .jpg | 352.778 x 248.003 mm - 1000 x 703  
Pixel - 72 dpi  
| 37,7 kB | .cdr |  
| 7,4 kB | .png | 74.083 x 52.211 mm - 210 x 148 Pixel  
- 72 dpi

**Graphic/Product/Contact**



ID: k2o1sk05  
  
| 43,5 kB | .jpg | 352.778 x 61.736 mm - 1000 x 175  
Pixel - 72 dpi

**Diagramm/Product/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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