

## BNS33-11Z-ST



- Long life
- no mechanical wear
- 88 mm x 25 mm x 13 mm
- Insensitive to soiling
- Thermoplastic enclosure
- Connector M8 x 1, 4-pole
- Concealed mounting possible
- Insensitive to transverse misalignment

### Data

#### Ordering data

Product type description	BNS 33-11Z-ST
Article number (order number)	101140997
EAN (European Article Number)	4030661120201
eCl@ss number, Version 9.0	27-27-24-02

#### Approval - Standards

Certificates	TÜV cULus EAC
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#### General data

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

#### General data - Features

Prerequisite evaluation unit	Yes
Number of openers	1
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
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## Mechanical data

Active area	lateral
Actuating element	Magnet
Ensured switch distance "ON" $S_{ao}$	5 mm
	8 mm
Ensured switch distance "OFF" $S_{ar}$	15 mm
	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	Connector M8
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## Mechanical data - Dimensions

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

## Ambient conditions

Protection class	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
Resistance to shock	30 g / 11 ms

## Electrical data

Voltage type	AC (alternating current)
	DC (direct current)
Switching voltage, maximum	60 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

Recommendation (actuator) BPS 33-2326

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:

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

### Product picture (catalogue individual photo)

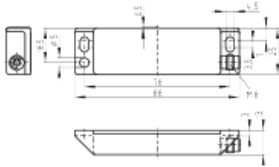


ID: kbns3f21

| 129,8 kB | .jpg | 232.833 x 105.481 mm - 660 x 299  
Pixel - 72 dpi

| 23,0 kB | .png | 74.083 x 33.514 mm - 210 x 95 Pixel  
- 72 dpi

### Dimensional drawing basic component



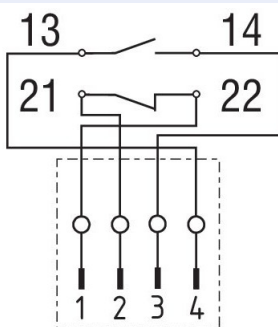
ID: 1bns3g06

| 80,9 kB | .jpg | 352.778 x 248.003 mm - 1000 x 703  
Pixel - 72 dpi

| 93,7 kB | .cdr |

| 3,9 kB | .png | 74.083 x 52.211 mm - 210 x 148 Pixel  
- 72 dpi

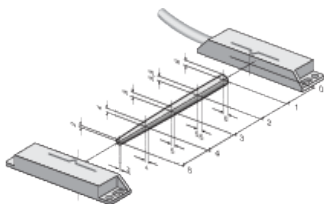
### Diagram



ID: kbns3k50

| 109,0 kB | .jpg | 352.778 x 410.986 mm - 1000 x  
1165 Pixel - 72 dpi

### Characteristic curve



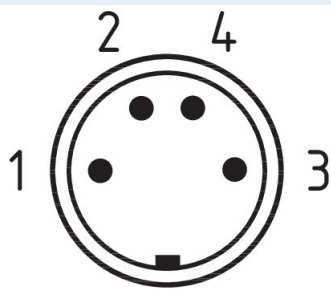
ID: kbns3a01

| 124,5 kB | .jpg | 352.778 x 216.253 mm - 1000 x 613  
Pixel - 72 dpi

| 13,1 kB | .png | 74.083 x 45.508 mm - 210 x 129  
Pixel - 72 dpi

| 96,3 kB | .cdr |

## Contact arrangement



ID: km8--k4b

| 17,0 kB | .cdr |

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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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