

BNS 33-12Z-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

	BNS 33-12Z-ST
	101144399
EAN (European Article Number)	4030661133317
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	32.9 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

Connector M8

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

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

BPS 33-2326

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

Photo/Product/Catalogue

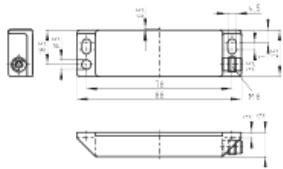


ID: kbns3f21

| 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

Dimension/Product/Basic



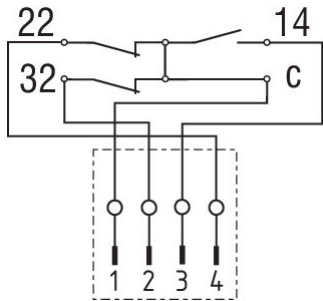
ID: 1bns3g06

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

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

| 93,7 kB | .cdr |

Graphic/Product/Contact

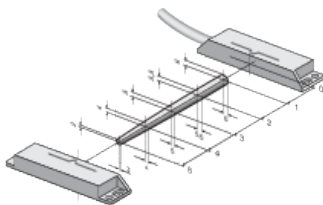


ID: kbns3k17

| 24,2 kB | .cdr |

| 90,7 kB | .jpg | 352.778 x 327.378 mm - 1000 x 928 Pixel - 72 dpi

Diagramm/Product/Curve



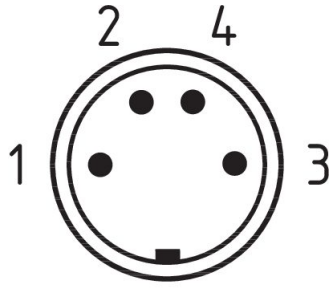
ID: kbns3a01

| 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

Graphic/Product/PIN



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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