

BNS33-02Z-ST-2187



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

Data

Ordering data

Product type description	BNS 33-02ZST-2187
Article number (order number)	101173053
EAN (European Article Number)	4030661301990
eCI@ss number, Version 9.0	27-27-24-02

Approval - Standards

Certificates	TÜV 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	35 g

General data - Features

Prerequisite evaluation unit	Yes
Number of openers	2

Safety appraisal

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

Safety appraisal - Safety outputs

B10d Normally-closed contact (NC) 25,000,000 Operations

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

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 VAC
Switching current, maximum 0.25 A
Switching capacity, maximum 5 W
Switching frequency, maximum 5 Hz

Electrical data - Digital Output

Versions Miscellaneous, Reed contacts

Pictures

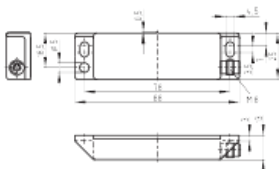
Product picture (catalogue individual photo)



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

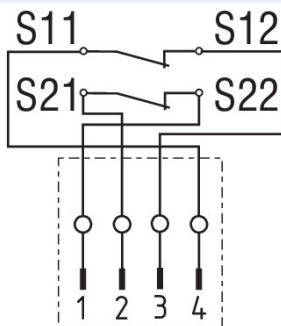
Dimensional drawing basic component



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

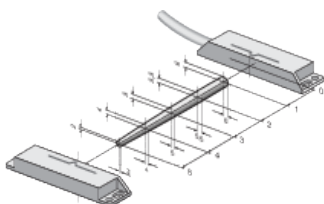
Diagram



ID: kbns3k22

| 19,2 kB | .cdr |
| 126,8 kB | .jpg | 352.778 x 404.283 mm - 1000 x
1146 Pixel - 72 dpi

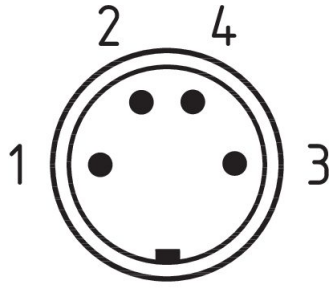
Characteristic curve



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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