



BNS 33-11Z-ST

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

Data

Ordering data

Product type description	BNS 33-11Z-ST
Article number (order number)	101140997
EAN (European Article Number)	4030661120201
eCl@ss number, version 11.0	27-27-24-02
eCl@ss number, version 9.0	27-27-24-02
ETIM number, version 7.0	EC002544
ETIM number, version 6.0	EC002544

Approvals - Standards

Certificates	TÜV BG cULus
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General data

Standards	BG-GS-ET-14 EN IEC 60947-5-3
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Coding level according to EN ISO 14119	Low
Working principle	Magnetic drive
Installation conditions (mechanical)	not flush
Enclosure material	Glass-fibre, reinforced thermoplastic
Gross weight	33 g

General data - Features

Prerequisite evaluation unit	Yes
Number of normally closed (NC)	1
Number of normally open (NO)	1

Safety classification

Standards	EN ISO 13849-1
Mission time	20 Year(s)

Safety classification - Safety outputs

B_{10D} - 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
Note (Repeat accuracy R)	Wiederholgenauigkeit $R \leq 0,1 \times S_{ao}$
Direction of motion	Head-on to the active surface

Mechanical data - Switching distances according EN IEC 60947-5-3

Assured switching distance "ON" S_{ao}	5 mm
	8 mm
Assured switching distance "OFF" S_{ar}	15 mm
	18 mm

Mechanical data - Connection technique

Termination	Connector M8
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Mechanical data - Dimensions

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

Ambient conditions

Degree of protection	IP67
Ambient temperature	-25 ... +70 °C
Storage and transport temperature, minimum	-25 °C
Storage and transport temperature, maximum	+70 °C
Resistance to vibrations	10 ... 55 Hz, amplitude 1 mm
Resistance to shock	30 g / 11 ms

Electrical data

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

Design of control elements	Miscellaneous, Reed contacts
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Scope of delivery

Scope of delivery	Actuator must be ordered separately.
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Accessory

Recommendation (actuator)	BPS 33-2326 BPS 33
Recommended safety switchgear	SRB-E-301ST SRB-E-201LC

Note

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

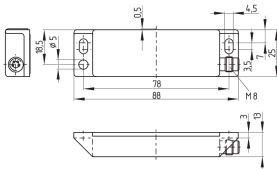


ID: kbns3f21

| 129.8 kB | .jpg | 232.833 x 105.481 mm - 660 x 299 px - 72 dpi

| 23.0 kB | .png | 74.083 x 33.514 mm - 210 x 95 px - 72 dpi

Dimensional drawing basic component



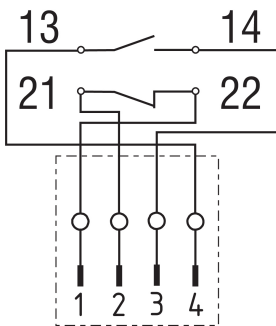
ID: 1bns3g06

| 93.7 kB | .cdr |

| 3.9 kB | .png | 74.083 x 52.211 mm - 210 x 148 px - 72 dpi

| 80.9 kB | .jpg | 352.778 x 248.003 mm - 1000 x 703 px - 72 dpi

Diagram

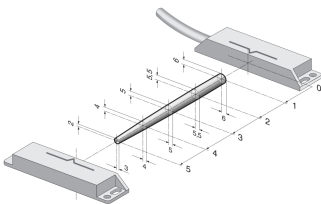


ID: kbns3k50

| 109.0 kB | .jpg | 352.778 x 410.986 mm - 1000 x 1165 px - 72 dpi

| 4.0 kB | .png | 73.731 x 86.078 mm - 209 x 244 px - 72 dpi

Characteristic curve

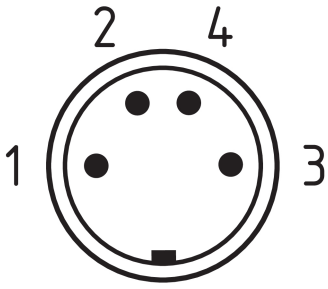


ID: kbns3a01

| 13.1 kB | .png | 74.083 x 45.508 mm - 210 x 129 px - 72 dpi

| 124.5 kB | .jpg | 352.778 x 216.253 mm - 1000 x 613 px - 72 dpi

Contact arrangement



ID: km8--k4b
| 17.0 kB | .cdr |
| 4.3 kB | .png | 74.083 x 73.025 mm - 210 x 207 px - 72 dpi
| 110.6 kB | .jpg | 352.778 x 347.133 mm - 1000 x 984 px - 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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