



BNS 33-11ZG-ST

- Connector M8 x 1, 4-pole
- LED version
- 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 33-11ZG-ST
Article number (order number)	101146423
EAN (European Article Number)	4030661138800
eCl@ss number, version 12.0	27-27-44-01
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	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
Housing material	Glass-fibre, reinforced thermoplastic
Gross weight	42 g

General data - Features

Coding	Yes
Integral system diagnostics, status	Yes
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
Direction of motion	Head-on to the active surface

Mechanical data - Switching distances

Assured switching distance "ON" S _{ao}	5 mm 8 mm
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Assured switching distance "OFF" S_{ar}	15 mm 18 mm
Note (switching distance)	All switching distances in accordance EN IEC 60947-5-3
Note (Repeat accuracy R)	Repeat accuracy $R \leq 0,1 \times S_{ao}$

Mechanical data - Connection technique

Length of cable	1 m
Termination	Connector M8

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	-25 ... +70 °C
Resistance to vibrations	10 ... 55 Hz, amplitude 1 mm
Resistance to shock	30 g / 11 ms

Electrical data

Switching voltage, maximum	24 VDC
Switching current, maximum	0.01 A
Switching capacity, maximum	0.24 W
Switching element	1 NO contact, 1 NC contacts
Switching principle	Reed contacts, Non-contact principle
Switching frequency, maximum	5 Hz

Status indication

Note (Integral System Diagnostics, status)

The LED is illuminated when the guard door is open.

Scope of delivery

Scope of delivery

Actuator must be ordered separately.

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.

Ordering code

Product type description:
BNS 33-(1)Z(2)-(3)-(4)

(1)

02	2 NC contact
11	1 NO contact/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

| 187.7 kB | .jpg | 352.778 x 159.808 mm - 1000 x 453 px - 72 dpi

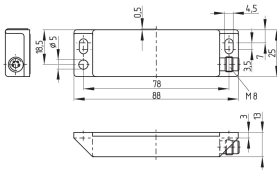
| 24.2 kB | .png | 74.083 x 33.514 mm - 210 x 95 px - 72 dpi

| 23.5 kB | .png | 74.083 x 74.083 mm - 210 x 210 px - 72 dpi

| 1.8 MB | .png | 166.557 x 75.45 mm - 2000 x 906 px - 305 dpi

| 27.4 kB | .jpg | 123.472 x 56.092 mm - 350 x 159 px - 72 dpi

Dimensional drawing basic component



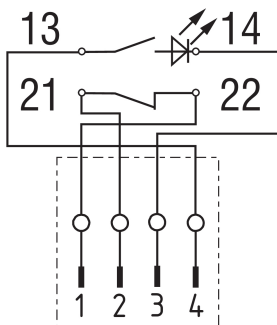
ID: 1bns3g06

| 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



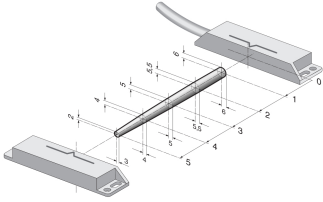
ID: kbns3k18

| 24.6 kB | .cdr |

| 115.2 kB | .jpg | 352.778 x 403.578 mm - 1000 x 1144 px - 72 dpi

| 4.3 kB | .png | 74.083 x 84.667 mm - 210 x 240 px - 72 dpi

Characteristic curve

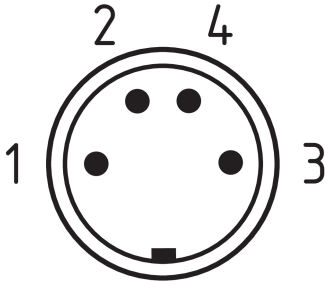


ID: kbns3a01

| 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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