Datasheet - BNS 33-11ZG

Safety sensors / BNS 33







(Minor differences between the printed image and the original product may exist!)

- 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
- · AS-Interface Safety at Work available

Ordering details

Product type description

Article number

EAN code

eCl@ss

BNS 33-11ZG

101109210

4030661026480

27-27-24-02

Approval

Approval



Classification

Standards

B_{10d} Opener/Normally open contact (NC/NO)

- notice

Mission time

notice

EN ISO 13849-1 25.000.000

at max. 20% contact load

20 Years

$$MTTF_d = \frac{B_{10d}}{0.1 \times n_{op}}$$

$$n_{op} = \frac{d_{ap} \times h_{op} \times 3600 \text{ s/h}}{t_{cycle}}$$

Global Properties

Product name

Standards

Compliance with the Directives (Y/N) CE

Materials

- Material of the housings

- Material of the cable mantle

Weight

Monitoring function of downstream devices (Y/N)

Prerequisite evaluation unit

BNS 33

IEC 60947-5-3, BG-GS-ET-14

Yes

Plastic, glass-fibre reinforced thermoplastic

PVC

65 g

No

Yes

Recommended actuator

BPS 33, BPS 33-2326

Mechanical data

Design of electrical connection

Cable

Cable length

1 m -10 m

Conductors

0,25 mm²

AWG-Number

23

mechanical installation conditions

not flush

Active area

Side

Ensured switch distance ON 5 mm / 8 mm

- BPS 33 = 5 mm Actuating magnet

- BPS 33-2326 = 8 mm Actuating magnet

Ensured switch distance OFF 15 mm / 18 mm

- BPS 33-2326 = 18 mm Actuating magnet

- BPS 33 = 15 mm Actuating magnet

Repeat accuracy R \leq 0,1 x Type of actuation Magnet

Direction of motion head-on with regard to the active surface

restistance to shock 30 g / 11 ms

Resistance to vibration 10 ... 55 Hz, Amplitude 1 mm

Ambient conditions

Ambient temperature

Min. environmental temperature
 Max. environmental temperature
 +70 °C

Storage and transport temperature

Min. Storage and transport temperature
 Max. Storage and transport temperature
 Protection class

Electrical data

Integrated Safety monitoring module available (Y/N)

Cross circuit/short circuit recognition possible (Y/N)

Voltage type

VDC

Switch frequency

max. 5 Hz

Switching voltage

max. 24 VDC

Switching current

max. 10 mA

Switching capacity

max. 240 mW

Outputs

Design of control output Other, Reed contakts

Number of shutters 1 piece
Number of openers 1 piece

Electrical data - Safety outputs

Number of secure semi-conductor outputs 0 piece

Number of secure outputs with contact 0 piece

Electrical data - Diagnostic output

Number of semi-conductor outputs with signaling function

0 piece

Number of outputs with signaling function that already have a contact

0 piece

LED switching conditions display

LED switching conditions display (Y/N)

Yes

- The LED is illuminated when the guard door is open.

ATEX

Explosion protection categories for gases

None

Explosion protected category for dusts

None

Dimensions

Dimensions of the sensor

- Width of sensor

88 mm

- Height of sensor

25 mm

- Length of sensor

13 mm

notice

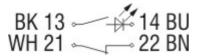
Contact symbols shown for the closed condition of the guard device.

The contact configuration for versions with or without LED is identical.

Included in delivery

Actuators must be ordered separately.

Diagram



Note Diagram

positive break NC contact





o—___o Normally-open contact

o-t---o Normally-closed contact

Ordering code

BNS 33-(1)Z(2)-(3)-(4)

(1)

02

2 Opener (NC)

11

1 Normally open contact (NO) / 1 Opener (NC)

12

1 Normally open contact (NO) / 2 Opener (NC)

(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

Documents

Operating instructions and Declaration of conformity (jp) 376 kB, 15.01.2013

Code: mrl_bns33_jp

Operating instructions and Declaration of conformity (es) 281 kB, 08.01.2013

Code: mrl_bns33_es

Operating instructions and Declaration of conformity (pt) 283 kB, 09.01.2013

Code: mrl_bns33_pt

Operating instructions and Declaration of conformity (en) 281 kB, 07.01.2013

Code: mrl_bns33_en

Operating instructions and Declaration of conformity (fr) 281 kB, 09.01.2013

Code: mrl_bns33_fr

Operating instructions and Declaration of conformity (pl) 322 kB, 05.02.2015

Code: mrl_bns33_pl

Operating instructions and Declaration of conformity (de) 283 kB, 07.01.2013

Code: mrl_bns33_de

Operating instructions and Declaration of conformity (cs) 307 kB, 08.01.2013

Code: mrl_bns33_cs

Operating instructions and Declaration of conformity (nl) 281 kB, 09.01.2013

Code: mrl_bns33_nl

Operating instructions and Declaration of conformity (da) 282 kB, 08.01.2013

Code: mrl_bns33_da

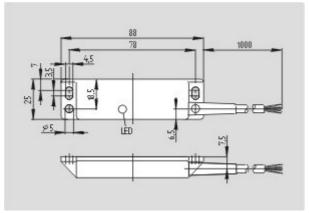
Operating instructions and Declaration of conformity (sv) 279 kB, 09.01.2013

Code: mrl_bns33_sv

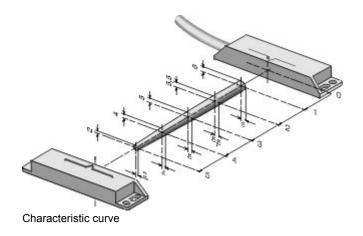
Operating instructions and Declaration of conformity (it) 277 kB, 09.01.2013

Code: mrl_bns33_it

Images



Dimensional drawing (basic component)



System components

Actuator

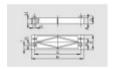
101107771 - BPS 33



101148482 - BPS 33-2326

• higher switching distance Sao 8 mm

Accessories



101158893 - SPACER BN 31/33

• to mount the magnetic safety sensor and actuator on ferromagnetic material

The data and values have been checked throroughly. Technical modifications and errors excepted.

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924CE1-T3 924CE1-T9A 924CE2-T9 924CE31-Y20-X5 924CE31-Y3L1 GL-10054 GL-85710 GL-85714 GLAB26J2B GLDB03C-6

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