Datasheet - BNS 33-11Z

Safety sensors / BNS 33







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

- 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 33-11Z

101107770

4030661024301

27-27-24-02

Approval

Approval



Classification

Standards

B10d Opener/Normally open contact (NC/NO)

- notice

Mission time

notice

EN ISO 13849-1

25.000.000

at max. 20% contact load

20 Years

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

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

Global Properties

Product name

Standards

Compliance with the Directives (Y/N) \Box \in

Materials

- Material of the housings

- Material of the cable mantle

Weight

Monitoring function of downstream devices (Y/N)

Prerequisite evaluation unit

Recommended safety-monitoring module

BNS 33

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

Yes

Plastic, glass-fibre reinforced thermoplastic

PVC 62 g No

Yes

Mechanical data

Design of electrical connectionCableCable length1 mConductors0,25 mm²AWG-Number23mechanical installation conditionsnot flush

Active area Side
Ensured switch distance ON 5 mm / 8 mm

- BPS 33-2326 = 8 mm Actuating magnet

- BPS 33 = 5 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

VAC/DC

Switch frequency

max. 5 Hz

Switching voltage max. 100 VAC/DC
Switching current max. 400 mA
Switching capacity max. 10 W

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)

Nο

ATEX

Explosion protection categories for gases

None
Explosion protected category for dusts

None

Dimensions

Dimensions of the sensor

- Width of sensor
- Height of sensor
- Length of sensor
13 mm

notice

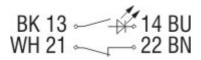
Contact symbols shown for the closed condition of the guard device.

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



no active

°----- Normally-open contact

o-t---o Normally-closed contact

Ordering code

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

(1)

02 2 Opener (NC)

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

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

(2)

without

without LED switching conditions display with LED switching conditions display

G

(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) 295 kB, 11.01.2016

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) 298 kB, 11.01.2016

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

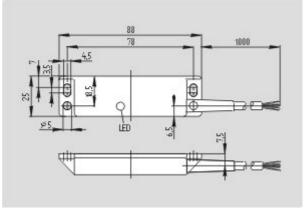
Operating instructions and Declaration of conformity (it) 277 kB, 09.01.2013

Code: mrl_bns33_it

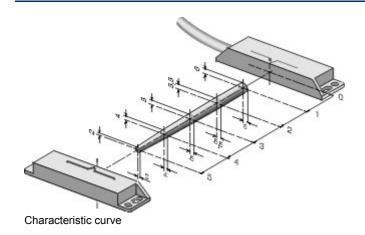
EAC certification (ru) 782 kB, 05.10.2015

Code: q_6044p17_ru

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.

Generiert am 27.01.2016 - 00:32:56h Kasbase 3.2.1.F.64l