Datasheet - BNS 33-11Z-2237

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
- · Actuation from cable direction possible
- · Particularly suitable for sliding doors

Ordering details

Product type description

Article number

EAN Code

eCl@ss

BNS 33-11Z-2237

101135573

4030661024462

27-27-24-02

Approval

Approval



Classification

Standards

B10d Normally-closed contact/Normally open contact (NC/NO)

- notice

Mission time

notice

EN ISO 13849-1

25.000.000

at max. 20% contact load

20 Years

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

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

Global Properties

Permanent light

Standards

Compliance with the Directives (Y/N) € €

Material

- Material of the housings
- Material of the cable mantle

Weight

BNS 33

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

Yes

Plastic, glass-fibre reinforced thermoplastic

PVC

62

Monitoring function of downstream devices (Y/N)

Prerequisite evaluation unit

Yes

Recommended safety-monitoring module

Recommended actuator BPS 33, BPS 33-2326

Mechanical data

Design of electrical connection

Cable

Cable length

1

Conductors

0,25

AWG-Number

23

mechanical installation conditions

Active area

Side

Ensured switch distance ON Sao 5 mm / 8 mm

- BPS 33-2326 = 8 mm Actuating magnet

- BPS 33 = 5 mm Actuating magnet

Ensured switch distance OFF S_{ar} 15 mm / 18 mm

- BPS 33 = 15 mm Actuating magnet

- BPS 33-2326 = 18 mm Actuating magnet

Repeat accuracy R $_{R}$ $\leq 0.1 \text{ x S}_{ao}$ Type of actuation Magnet

Direction of motion head-on or lateral 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
Number of openers 1

Electrical data - Safety outputs

Electrical data - Diagnostic output

Number of semi-conductor outputs with signaling function 0 0

Number of outputs with signaling function that already have a contact

LED switching conditions display

LED switching conditions display (Y/N)

No

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

1 active

no active

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)

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

1 Normally open contact (NO) / 2 Opener (NC) 12

(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) 551 kB, 18.08.2017

Code: mrl_bns33_jp

Operating instructions and Declaration of conformity (es) 298 kB, 16.09.2016

Code: mrl_bns33_es

Operating instructions and Declaration of conformity (pt) 300 kB, 03.06.2016

Code: mrl_bns33_pt

Operating instructions and Declaration of conformity (en) 299 kB, 04.03.2016

Code: mrl_bns33_en

Operating instructions and Declaration of conformity (fr) 299 kB, 29.04.2016

Code: mrl_bns33_fr

Operating instructions and Declaration of conformity (pl) 327 kB, 29.04.2016

Code: mrl_bns33_pl

Operating instructions and Declaration of conformity (de) 300 kB, 04.03.2016

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) 322 kB, 28.06.2018

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

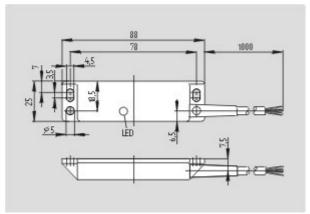
Code: mrl_bns33_sv

Operating instructions and Declaration of conformity (it) 294 kB, 02.09.2016

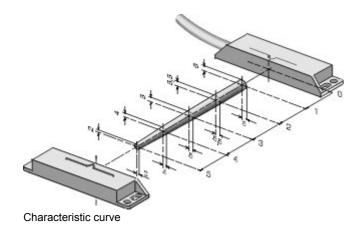
Code: mrl_bns33_it

EAC certification (ru) 782 kB, 05.10.2015

Code: q_6044p17_ru



Dimensional drawing (basic component)



System components

Actuator

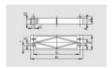
101107771 - BPS 33



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 13.02.2019 - 14:25:27h Kasbase 3.3.0.F.64l