Datasheet - BNS 33S-12ZG

Safety sensors / BNS 33S







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

- LED version
- · Stainless steel enclosure
- · Cable connection suitable for the food industry
- Concealed mounting possible
- 88 mm x 27 mm x 14,5 mm
- · Long life
- no mechanical wear
- · Insensitive to soiling
- · Insensitive to transverse misalignment

Ordering details

Product type description

Article number

EAN Code

eCl@ss

BNS 33S-12ZG

101184325

4030661322216

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

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

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

Global Properties

Permanent light

Standards

Compliance with the Directives (Y/N) C €

Materials

- Material of the housings

- Material of the cable mantle

Weight

Coding available (Y/N)

Monitoring function of downstream devices (Y/N)

BNS 33S

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

Yes

Stainless steel

PVC

170

Yes

No

Prerequisite evaluation unit

Recommended safety-monitoring module

AES 1135, AES 1136, AES 1165, AES 1166, AES 1165-2250, AES 1185, AES 1235, AES 1236, AES 1265, AES 1266, AES 1337, AES 2135, AES 2136, AES 2335, AES 2336, AES 2535, AES 2536, AES 2565,

AES 2566, AES 2285, AES 3075, SRB202C., SRB400C., AES 3075

Recommended actuator BPS 33S

Mechanical data

Design of electrical connection Cable Cable length 1 Conductors 0,25 AWG-Number 23 mechanical installation conditions not flush Active area Side Ensured switch distance ON Sao 8 mm Ensured switch distance OFF Sar 18 mm

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

Yes

Magnet

restistance to shock 30 g / 11 ms

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

Ambient conditions

Type of actuation

Ambient temperature

- Min. environmental temperature -25 °C
- Max. environmental temperature +70 °C

Storage and transport temperature

- Min. Storage and transport temperature

- Max. Storage and transport temperature

+80 °C

Protection class

IP69K

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
Number of openers 2

Electrical data - Safety outputs

Number of secure semi-conductor outputs 0
Number of secure outputs with contact 0

Electrical data - Diagnostic output

Number of semi-conductor outputs with signaling function

Number of outputs with signaling function that already have a contact

LED switching conditions display

LED switching conditions display (Y/N)

Yes

0

0

- The LED is illuminated when the guard is closed.

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
14.5 mm

notice

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

Contact S21-S22 must be integrated in the safety circuit

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

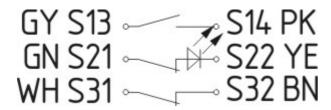
Included in delivery

Actuators must be ordered separately.

Indication legend

Enabling zone

Diagram



Note Diagram







O—___O Normally-open contact

o-t---o Normally-closed contact

Ordering code

Documents

Operating instructions and Declaration of conformity (it) 265 kB, 26.06.2017

Code: mrl_bns33s_it

Operating instructions and Declaration of conformity (fr) 286 kB, 04.04.2012

Code: mrl_bns33s_fr

Operating instructions and Declaration of conformity (cn) 343 kB, 27.05.2015

Code: mrl_bns33s_cn

Operating instructions and Declaration of conformity (de) 407 kB, 27.11.2012

Code: mrl_bns33s_de

Operating instructions and Declaration of conformity (de) 258 kB, 06.03.2017

Code: mrl_bns33s_de

Operating instructions and Declaration of conformity (sv) 285 kB, 16.04.2012

Code: mrl_bns33s_sv

Operating instructions and Declaration of conformity (en) 412 kB, 27.11.2012

Code: mrl_bns33s_en

Operating instructions and Declaration of conformity (en) 263 kB, 06.03.2017

Code: mrl_bns33s_en

Operating instructions and Declaration of conformity (jp) 371 kB, 14.01.2013

Code: mrl_bns33s_jp

Operating instructions and Declaration of conformity (da) 256 kB, 24.09.2015

Code: mrl_bns33s_da

Operating instructions and Declaration of conformity (pt) 269 kB, 10.05.2017

Code: mrl_bns33s_pt

Operating instructions and Declaration of conformity (es) 268 kB, 07.04.2017

Code: mrl_bns33s_es

Operating instructions and Declaration of conformity (nl) 278 kB, 04.07.2018

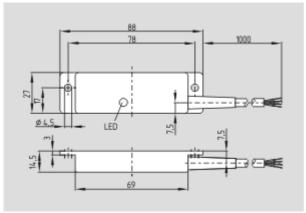
Code: mrl_bns33s_nl

Operating instructions and Declaration of conformity (pl) 296 kB, 22.05.2017

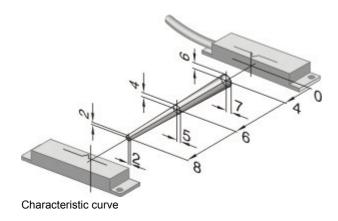
Code: mrl_bns33s_pl

EAC certification (ru) 782 kB, 05.10.2015

Code: q_6044p17_ru



Dimensional drawing (basic component)



System components

Actuator

101184326 - BPS 33S



• Stainless steel enclosure

K.A. Schmersal GmbH & Co. KG, Möddinghofe 30, D-42279 Wuppertal The data and values have been checked throroughly. Technical modifications and errors excepted. Generiert am 13.02.2019 - 14:26:02h Kasbase 3.3.0.F.64I