Datasheet - BNS 36-02/01ZG-L

Safety sensors / BNS 36





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

- Thermoplastic enclosure
- · Long life
- no mechanical wear
- 88 mm x 25 mm x 13 mm
- · Concealed mounting possible
- · Insensitive to transverse misalignment
- · Insensitive to soiling

Ordering details

Product type description

Article number

EAN code

BNS 36-02/01ZG-L

101193232

4030661359915

Approval

Approval



Classification

Standards

B_{10d} Opener (NC)

- notice

Mission time

notice

EN ISO 13849-1

25.000.000

at max. 20% contact load

20 Years

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

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

Global Properties

Product name

Standards

Compliance with the Directives (Y/N) € €

Category safety pursuant to EN ISO 13849-1

Materials

- Material of the housings

- Material of the cable mantle

Weight

Coding available (Y/N)

Monitoring function of downstream devices (Y/N)

Prerequisite evaluation unit

Recommended safety-monitoring module

BNS 36

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

Yes

up 4 - Only in combination with safety monitoring module

Plastic, glass-fibre reinforced thermoplastic

PVC

93.5 g

Yes

No

Mechanical data

Design of electrical connection Cable

Cable length 1 m

Conductors 6 x 0,25 mm²

AWG-Number 30

mechanical installation conditions quasi-flush

Active area

Ensured switch distance ON Sao 7 mm

Ensured switch distance OFF Sar 17 mm

notice Axial misalignment

The safety sensor and the actuator tolerate a horizontal and vertical misalignment to each other. The possible misalignment depends on the distance of the active surfaces of the sensor and the actuator. The sensor

left

is active in the tolerance range.

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

Door hinge

Ambient conditions

Ambient temperature

- Min. environmental temperature $$-25\ ^{\circ}\text{C}$$

- Max. environmental temperature +70 °C

Storage and transport temperature

- Min. Storage and transport temperature $$-25\ ^{\circ}\text{C}$$

- Max. Storage and transport temperature $$+70\ ^{\circ}\text{C}$$

Protection class IP67

Electrical data

Integrated Safety monitoring module available (Y/N) No

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

Yes

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

Number of shutters 0 piece
Number of openers 3 piece

Design of output signal switching device

Electrical data - Safety outputs

Number of secure semi-conductor outputs 0 piece

Number of secure outputs with contact 2 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

1 piece

LED switching conditions display

LED switching conditions display (Y/N)

Yes

- 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

88 mm

- Height of sensor

25 mm

- Length of sensor

13 mm

notice

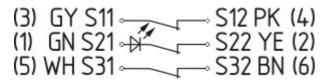
Contact symbols shown for the closed condition of the guard device.

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

Included in delivery

Actuators must be ordered separately.

Diagram



Note Diagram

ositive break NC contact





o-__- Normally-open contact

o----- Normally-closed contact

Ordering code

BNS 36-(1)(2)Z(3)-(4)-(5)

(1)

11

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

02

2 Opener (NC)

(2)

without without Diagnostic output

/01 1 Opener (NC)

(3)

withoutwithout LED switching conditions displayGwith LED switching conditions display

(4)

withoutPre-wired cableSTwith connector

(5)

L Door hinge on left-hand side
R Door hinge on right-hand side

Documents

Operating instructions and Declaration of conformity (nl) 281 kB, 03.05.2013

Code: mrl_bns36_nl

Operating instructions and Declaration of conformity (en) 271 kB, 13.12.2012

Code: mrl_bns36_en

Operating instructions and Declaration of conformity (es) 280 kB, 03.05.2013

Code: mrl_bns36_es

Operating instructions and Declaration of conformity (sv) 318 kB, 16.04.2012

Code: mrl_bns36_sv

Operating instructions and Declaration of conformity (pt) 273 kB, 26.07.2013

Code: mrl_bns36_pt

Operating instructions and Declaration of conformity (fr) 279 kB, 03.05.2013

Code: mrl_bns36_fr

Operating instructions and Declaration of conformity (de) 266 kB, 13.12.2012

Code: mrl_bns36_de

Operating instructions and Declaration of conformity (da) 282 kB, 22.08.2013

Code: mrl_bns36_da

Operating instructions and Declaration of conformity (pl) 287 kB, 19.04.2013

Code: mrl_bns36_pl

Operating instructions and Declaration of conformity (it) 278 kB, 03.05.2013

Code: mrl_bns36_it

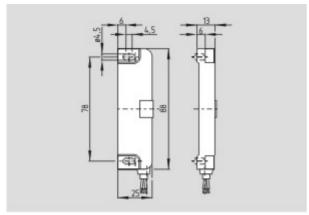
Operating instructions and Declaration of conformity (cs) 322 kB, 04.06.2012

Code: mrl_bns36_cs

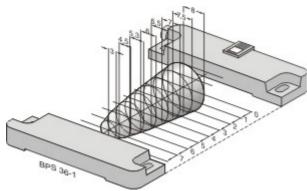
Operating instructions and Declaration of conformity (jp) 385 kB, 31.10.2013

Code: mrl_bns36_jp

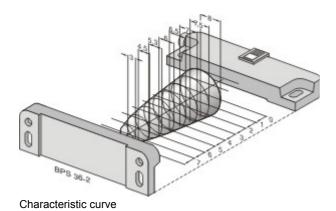
Images

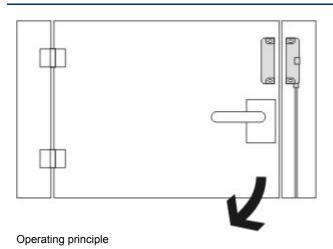


Dimensional drawing (basic component)



Characteristic curve





System components

Actuator



101190052 - BPS 36-1

• Actuator and sensor on a mounting level

101191859 - BPS 36-2



• Actuator 90° attached to the sensor

Accessories



101188624 - SPACER BNS 36

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

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 07.03.2014 - 11:07:26h Kasbase 2.2.18.F DBI

