Datasheet - BNS 260-11/01ZG-L

Safety sensors / BNS 260







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

- Thermoplastic enclosure
- Small body
- · Concealed mounting possible
- 26 mm x 36 mm x 13 mm
- · Long life
- no mechanical wear
- Insensitive to transverse misalignment
- · Insensitive to soiling
- Pre-wired cable

Ordering details

Product type description

Article number

EAN Code

eCl@ss

BNS 260-11/01ZG-L

101184392

4030661321929

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

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

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

Global Properties

Permanent light

Standards

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

Yes

BNS 260

Materials

- Material of the housings Plastic, glass-fibre reinforced thermoplastic

- Material of the cable mantle **PVC** Weight 55

Coding available (Y/N) Yes Monitoring function of downstream devices (Y/N) No

Prerequisite evaluation unit

Recommended safety-monitoring module

BPS 260 Recommended actuator

Mechanical data

Design of electrical connection Cable Cable length

6 x 0,25 Conductors

AWG-Number

mechanical installation conditions quasi-flush

Active area

Ensured switch distance ON Sao 5 mm Ensured switch distance OFF Sar 15 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

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 left

Ambient conditions

Ambient temperature

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

Storage and transport temperature

-25 °C - Min. Storage and transport temperature +70 °C - Max. Storage and transport temperature 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 max. 24 VDC Switching voltage Switching current max. 10 mA max. 240 mW

1

Switching capacity

Outputs

Design of control output

Number of shutters

2

0

2

Electrical data - Safety outputs

Number of secure semi-conductor outputs

Number of secure outputs with contact

Electrical data - Diagnostic output

Number of semi-conductor outputs with signaling function 0

Number of outputs with signaling function that already have a contact

LED switching conditions display

LED switching conditions display (Y/N)

- The LED is illuminated when the guard is closed.

Yes

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.

Contact S21-S22 und S11-S12 must be integrated in the safety circuit

Included in delivery

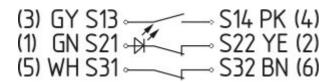
Actuators must be ordered separately.

Indication legend

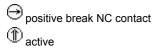
Switch on/off diagram

The actuating graph also applies to the BPS 260-2, the actuator with 90° inverted actuation.

Diagram



Note Diagram



no active

o-___- Normally-open contact

o----- Normally-closed contact

Ordering code

BNS 260-(1)(2)Z(3)-(4)-(5)

(1)

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

02 2 Opener (NC)

(2)

without without Diagnostic output

/01 1 Opener (NC)

(3)

without without LED switching conditions display

G with LED switching conditions display

(4)

withoutPre-wired cableSTwith connector

ST with connector
(5)

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

Documents

Operating instructions and Declaration of conformity (pt) 331 kB, 24.10.2018

Code: mrl_bns260_pt

Operating instructions and Declaration of conformity (cs) 365 kB, 25.10.2018

Code: mrl_bns260_cs

Operating instructions and Declaration of conformity (fr) 331 kB, 24.10.2018

Code: mrl_bns260_fr

Operating instructions and Declaration of conformity (de) 290 kB, 01.10.2018

Code: mrl_bns260_de

Operating instructions and Declaration of conformity (it) 321 kB, 24.10.2018

Code: mrl_bns260_it

Operating instructions and Declaration of conformity (nl) 329 kB, 23.10.2018

Code: mrl_bns260_nl

Operating instructions and Declaration of conformity (pl) 365 kB, 25.10.2018

Code: mrl_bns260_pl

Operating instructions and Declaration of conformity (sv) 442 kB, 25.10.2018

Code: mrl_bns260_sv

Operating instructions and Declaration of conformity (jp) 398 kB, 24.09.2018

Code: mrl_bns260_jp

Operating instructions and Declaration of conformity (en) 330 kB, 01.10.2018

Code: mrl_bns260_en

Operating instructions and Declaration of conformity (es) $329\ kB$, 24.10.2018

Code: mrl_bns260_es

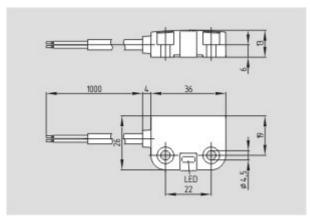
Operating instructions and Declaration of conformity (da) 343 kB, 25.10.2018

Code: mrl_bns260_da

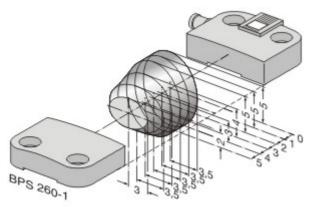
EAC certification (ru) 782 kB, 05.10.2015

Code: q_6044p17_ru

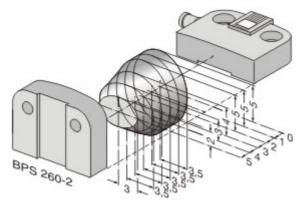
Images



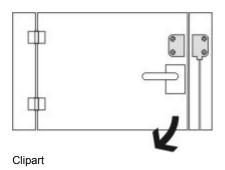
Dimensional drawing (basic component)



Characteristic curve



Characteristic curve



System components

Actuator



101184395 - BPS 260-1

· Actuator and sensor on a mounting level



101184396 - BPS 260-2

Actuator 90 ° attached to the sensor

Accessories



101184643 - SPACER BNS 260

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 26.03.2019 - 08:37:39h Kasbase 3.3.0.F.64I