Datasheet - BNS 260-02/01ZG-R

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 260-02/01ZG-R

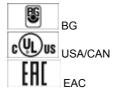
101184374

4030661321721

27-27-24-02

Approval

Approval



Classification

Standards

B10d Normally-closed contact (NC)

- notice

Mission time

notice

EN ISO 13849-1 25.000.000

at max. 20% contact load

20 Years

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

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

Global Properties

Permanent light

Standards

Compliance with the Directives (Y/N) $\mathsf{C}\,\mathsf{E}$

BNS 260

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

Yes

Category safety pursuant to EN ISO 13849-1

Materials

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

No

- Material of the cable mantle

Weight 55 Coding available (Y/N) Yes

Monitoring function of downstream devices (Y/N)

Prerequisite evaluation unit

Recommended safety-monitoring module

Recommended actuator **BPS 260**

Mechanical data

Cable Design of electrical connection

Cable length 1

Conductors 6 x 0,25

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 right

Ambient conditions

Ambient temperature

- Min. environmental temperature -25 °C

- Max. environmental temperature +70 °C

Storage and transport temperature

- Min. Storage and transport temperature -25 °C

- Max. Storage and transport temperature +70 °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** max. 5 HZ Switch frequency

Switching voltage max. 24 VDC

Switching current max. 10 mA

Switching capacity max. 240 mW

Outputs

Design of control output

Number of shutters 0
Number of openers 3
Design of output signal switching device

Electrical data - Safety outputs

Number of secure semi-conductor outputs 0

Number of secure outputs with contact 2

Electrical data - Diagnostic output

Number of semi-conductor outputs with signaling function 0

Number of outputs with signaling function that already have a contact 1

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
 - 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

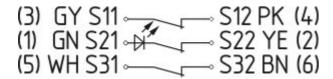
Actuators must be ordered separately.

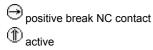
Indication legend

Switch on/off diagram

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

Diagram





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

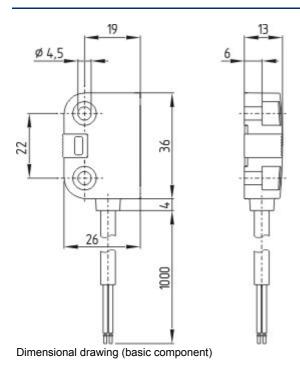
Operating instructions and Declaration of conformity (da) 343 kB, 25.10.2018

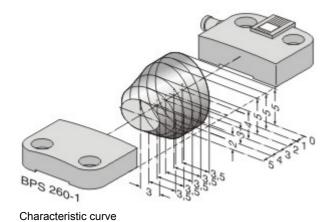
Code: mrl_bns260_da

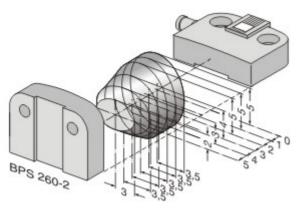
EAC certification (ru) 782 kB, 05.10.2015

Code: q_6044p17_ru

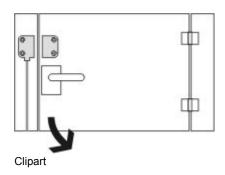
Images







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