Datasheet - BNS 36-11/01Z-ST-R

Safety sensors / BNS 36

☑ Preferred typ





(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
- · Connector 8 mm, 6-pole, Latching interlocking

Ordering details

Product type description

Article number

EAN Code

eCl@ss

BNS 36-11/01Z-ST-R

101193247

4030661359939

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

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

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

Global Properties

Permanent light

Standards

Compliance with the Directives (Y/N) € €

Category safety pursuant to EN ISO 13849-1

Materials

- Material of the housings

Coding available (Y/N)

Monitoring function of downstream devices (Y/N)

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

Yes

No

Prerequisite evaluation unit

Recommended safety-monitoring module

Recommended actuator BPS 36-1, BPS 36-2

Mechanical data

Design of electrical connection

AWG-Number

mechanical installation conditions

Active area

Ensured switch distance ON Sao
Ensured switch distance OFF Sar

notice

Type of actuation

Direction of motion

restistance to shock

Resistance to vibration

Door hinge

Connector 8 mm, 6-pole, Latching interlocking

quasi-flush

7 mm 17 mm

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.

Magnet

head-on with regard to the active surface

30 g / 11 ms

10 ... 55 HZ, Amplitude 1 mm

right

IP67

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
 +70 °C

Protection class

Electrical data

Integrated Safety monitoring module available (Y/N)

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

Yes

Voltage type VDC
Switch frequency max.

Switch frequencymax. 5 HZSwitching voltagemax. 30 VDCSwitching currentmax. 400 mASwitching capacitymax. 10 W

Outputs

Design of control output

Number of shutters

Design of output signal switching device

Number of openers

Electrical data - Safety outputs

Number of secure semi-conductor outputs

0

1

2

Number of secure outputs with contact

2

Electrical data - Diagnostic output

Number of semi-conductor outputs with signaling function

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

0

No

LED switching conditions display

LED switching conditions display (Y/N)

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

The number in brackets indicate the PIN number of the connector.

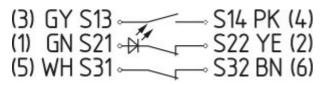
Contact symbols shown for the closed condition of the guard device.

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

Included in delivery

Actuators must be ordered separately.

Diagram



Note Diagram

opositive break NC contact

① active

no active

o-__- Normally-open contact

o-t--- 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) 324 kB, 24.09.2018

Code: mrl_bns36_nl

Operating instructions and Declaration of conformity (en) 296 kB, 24.09.2018

Code: mrl_bns36_en

Operating instructions and Declaration of conformity (es) 294 kB, 24.09.2018

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) 297 kB, 24.09.2018

Code: mrl_bns36_pt

Operating instructions and Declaration of conformity (fr) 295 kB, 24.09.2018

Code: mrl_bns36_fr

Operating instructions and Declaration of conformity (de) 290 kB, 24.09.2018

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) 331 kB, 24.09.2018

Code: mrl_bns36_pl

Operating instructions and Declaration of conformity (it) 287 kB, 24.09.2018

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) 555 kB, 24.09.2018

Code: mrl_bns36_jp

Operating instructions and Declaration of conformity (cn) 381 kB, 02.04.2015

Code: mrl_bns36_cn

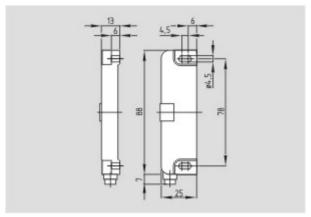
Operating instructions and Declaration of conformity (br) 289 kB, 18.12.2018

Code: mrl_bns36_br

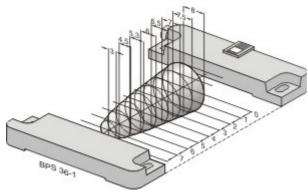
EAC certification (ru) 782 kB, 05.10.2015

Code: q_6044p17_ru

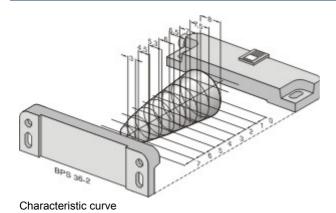
Images

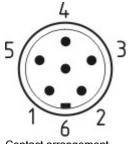


Dimensional drawing (basic component)

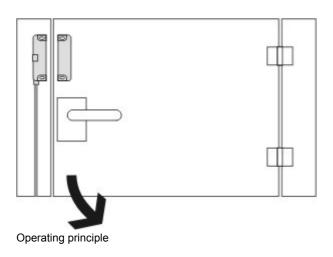


Characteristic curve





Contact arrangement



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 31.07.2019 - 21:57:44h Kasbase 3.3.0.F.64I