Datasheet - BNS 36-11Z-ST-L

Safety sensors / BNS 36

X 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 M8, 4-pole, Latching interlocking

Ordering details

Product type description

Article number

EAN Code

eCl@ss

BNS 36-11Z-ST-L

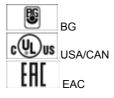
101193148

4030661359809

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

Weight

Coding available (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

28

Yes

Monitoring function of downstream devices (Y/N)

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 S_{ao} Ensured switch distance OFF S_{ar}

notice

Type of actuation

Direction of motion

restistance to shock
Resistance to vibration

Door hinge

Connector M8, 4-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

left

Ambient conditions

Ambient temperature

Min. environmental temperatureMax. environmental temperature

Storage and transport temperature

Min. Storage and transport temperature
Max. Storage and transport temperature

Protection class

−25 °C

+70 °C

−25 °C

+70 °C

IP67

Electrical data

Integrated Safety monitoring module available (Y/N)

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

Switch frequency Switching voltage

Switching current
Switching capacity

No

Yes VDC

max. 5 HZ

max. 75 VDC

max. 400 mA

max. 10 W

Outputs

Design of control output

Number of shutters

Number of openers

Design of output signal switching device

1

1

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

LED switching conditions display

LED switching conditions display (Y/N)

No

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 sensorLength of sensor

25 mm

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

positive break NC contact





o____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)

2 Opener (NC)

02

(2)

without without Diagnostic output

/01 1 Opener (NC)

(3)

without LED switching conditions display without G

with LED switching conditions display

(4)

without Pre-wired cable 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 (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

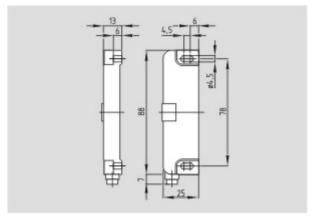
Operating instructions and Declaration of conformity (br) 289 kB, 18.12.2018

Code: mrl_bns36_br

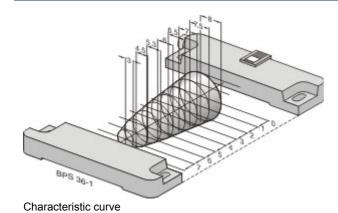
EAC certification (ru) 782 kB, 05.10.2015

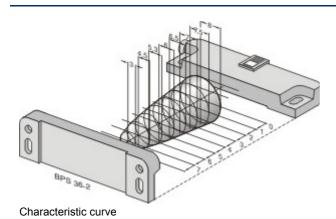
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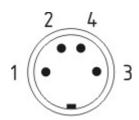
Images



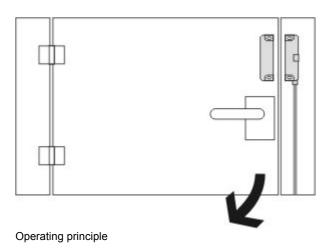
Dimensional drawing (basic component)







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

BPE 30-1

Accessories



101188624 - SPACER BNS 36

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

Connector



101194059 - BNS-Y-11

- enables the interconnection and the connection of BNS safety sensors to a common safety monitoring module
- for BNS 33, BNS 36, BNS 260 (with 1 NC/1 NO)

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 - 14:26:47h Kasbase 3.3.0.F.64I