

Datasheet - BNS 36-11Z-L

Safety sensors / BNS 36

☒ Preferred typ



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

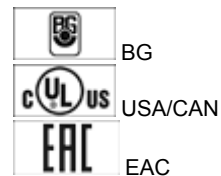
- Thermoplastic enclosure
- Long life
- no mechanical wear
- 88 mm x 25 mm x 13 mm
- Concealed mounting possible
- Insensitive to transverse misalignment
- Insensitive to soiling

Ordering details

Product type description	BNS 36-11Z-L
Article number	101193125
EAN Code	4030661359748
eCl@ss	27-27-24-02

Approval

Approval



Classification

Standards	EN ISO 13849-1
B10d Normally-closed contact/Normally open contact (NC/NO)	25.000.000
- notice	at max. 20% contact load
Mission time	20 Years
notice	$MTTF_d = \frac{B_{10d}}{0,1 \times n_{op}}$ $n_{op} = \frac{d_{op} \times h_{op} \times 3600 \text{ s/h}}{t_{cycle}}$

Global Properties

Permanent light	BNS 36
Standards	IEC 60947-5-3, BG-GS-ET-14
Compliance with the Directives (Y/N)	Yes
Category safety pursuant to EN ISO 13849-1	up 4 - Only in combination with safety monitoring module
Materials	
- Material of the housings	Plastic, glass-fibre reinforced thermoplastic
- Material of the cable mantle	PVC
Weight	65

Coding available (Y/N)	Yes
Monitoring function of downstream devices (Y/N)	No
Prerequisite evaluation unit	
Recommended safety-monitoring module	
Recommended actuator	BPS 36-1, BPS 36-2

Mechanical data

Design of electrical connection	Cable
Cable length	1
Conductors	4 x 0,25
AWG-Number	30
mechanical installation conditions	quasi-flush
Active area	
Ensured switch distance ON S_{ao}	7 mm
Ensured switch distance OFF S_{ar}	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 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	
- 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
Switch frequency	max. 5 HZ
Switching voltage	max. 75 VDC
Switching current	max. 400 mA
Switching capacity	max. 10 W

Outputs

Design of control output	
Number of shutters	1
Number of openers	1
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	0

LED switching conditions display

LED switching conditions display (Y/N)	No
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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
- positive break NC contact
 - active
 - no active
 - Normally-open contact
 - 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)	
<i>without</i>	without Diagnostic output
/01	1 Opener (NC)
(3)	
<i>without</i>	without LED switching conditions display
G	with LED switching conditions display
(4)	
<i>without</i>	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

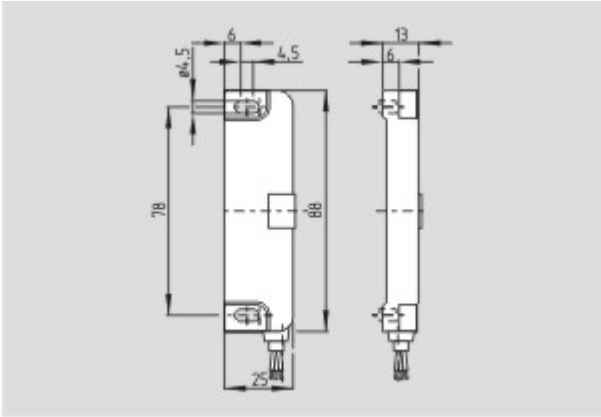
Operating instructions and Declaration of conformity (br) 289 kB, 18.12.2018

Code: mrl_bns36_br

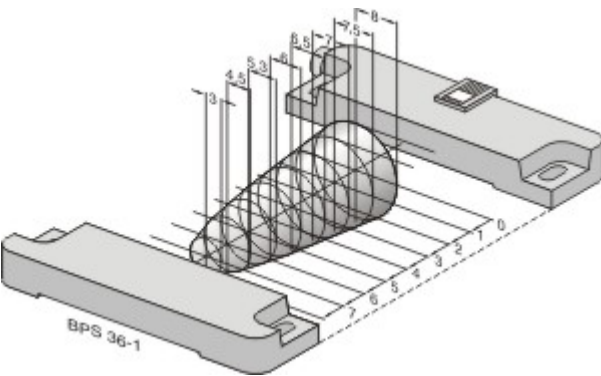
EAC certification (ru) 782 kB, 05.10.2015

Code: q_6044p17_ru

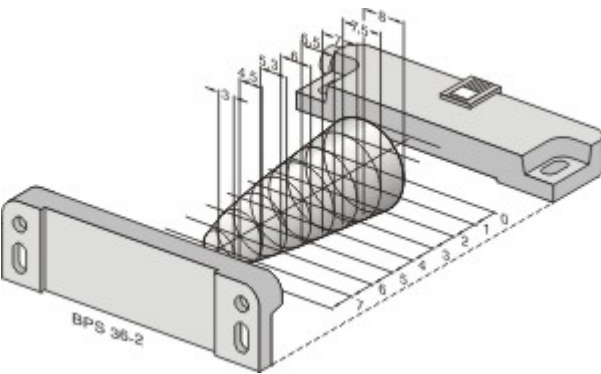
Images



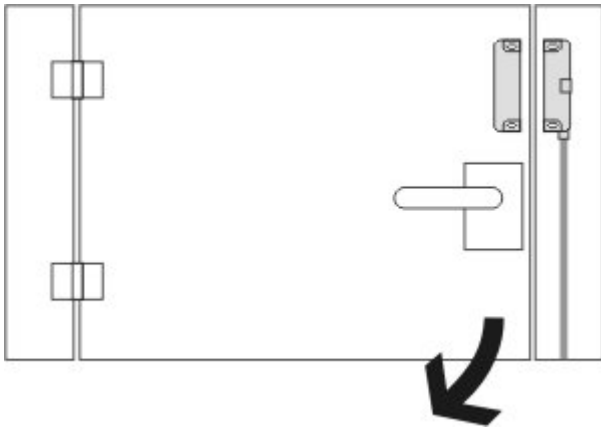
Dimensional drawing (basic component)



Characteristic curve



Characteristic curve



Operating principle

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

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The data and values have been checked thoroughly. Technical modifications and errors excepted.

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