13.02.2019

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SCHMERSAL

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

Safety sensors / BNS 36

X Preferred typ



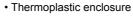
(Minor differences between the printed image and the original product may exist!) $\label{eq:magnetized}$

Ordering details

Product type description Article number EAN Code eCl@ss

Approval

Approval



- 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

BNS 36-11/01Z-ST-L 101193236 4030661359922 27-27-24-02



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 = $\frac{B_{10d}}{0.1 \times n_{op}}$ $n_{op} = \frac{d_{op} \times h_{op} \times 3600 \text{ s/h}}{0.000 \text{ s/h}}$

t _{oyole}

Global Properties

Permanent light	BNS 36
Standards	IEC 60947-5-3, BG-GS-ET-14
Compliance with the Directives (Y/N) CE	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
Coding available (Y/N)	Yes
Monitoring function of downstream devices (Y/N)	No

Mechanical data

Design of electrical connection AWG-Number	Connector 8 mm, 6-pole, Latching interlocking
mechanical installation conditions	quasi-flush
Active area	
Ensured switch distance ON Sao	7 mm
Ensured switch distance OFF Sar	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. 30 VDC
Switching current	max. 400 mA
Switching capacity	max. 10 W

Outputs

Design of control output		
Number of shutters	1	
Number of openers	2	
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)	Νο
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

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

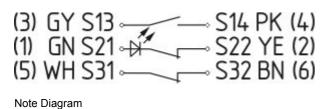
Contact symbols shown for the closed condition of the guard device.

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

Included in delivery

Actuators must be ordered separately.

Diagram



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)	
without	without LED switching conditions display
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

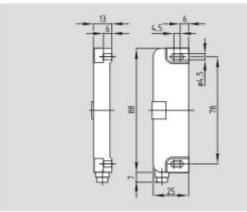
Operating instructions and Declaration of conformity (br) 289 kB, 18.12.2018

Code: mrl_bns36_br

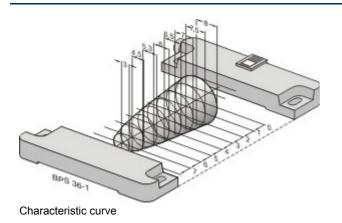
EAC certification (ru) 782 kB, 05.10.2015

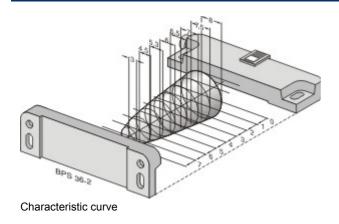
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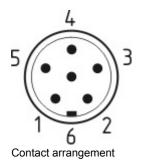
Images

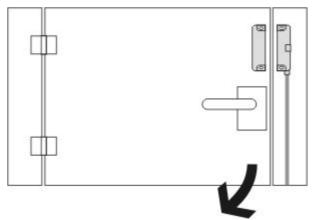


Dimensional drawing (basic component)









Operating principle

System components

Actuator	101190052 - BPS 36-1
BEHERRING CE	Actuator and sensor on a mounting level
	101191859 - BPS 36-2 • Actuator 90 ° attached to the sensor
Accessories	
6 0	 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 13.02.2019 - 14:26:34h Kasbase 3.3.0.F.64l