18.07.2016

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SCHMERSAL

Datasheet - BNS 36-11Z-L

Safety sensors / BNS 36

X Preferred typ



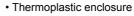
(Minor differences between the printed image and the original product may exist!)

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

BNS 36-11Z-L 101193125 4030661359748 27-27-24-02



Classification

Standards

B10d Opener/Normally open contact (NC/NO) - notice Mission time notice EN ISO 13849-1 25.000.000 at max. 20% contact load 20 Years $MTTF_{d} = \frac{B_{100}}{0.1 \times n_{op}}$ $n_{op} = \frac{d_{op} \times h_{op} \times 3600 \text{ s/h}}{t_{cycle}}$

Global Properties

36
0947-5-3, BG-GS-ET-14
- Only in combination with safety monitoring module
c, glass-fibre reinforced thermoplastic

Coding available (Y/N)
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	Cable
Cable length	1 m
Conductors	4 x 0,25 mm²
AWG-Number	30
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. 75 VDC
Switching current	max. 400 mA
Switching capacity	max. 10 W

Outputs

Design of control output		
Number of shutters	1 piece	
Number of openers	1 piece	
Design of output signal switching device		

Electrical data - Safety outputs

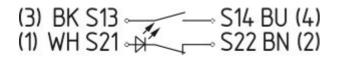
Contact symbols shown for the closed condition of the guard device.

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 o^{++--o} Normally-closed contact

Ordering code

BNS 36-(1)(2)Z(3)-(4)-(5)

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) 281 kB, 03.05.2013 Code: mrl_bns36_nl

Operating instructions and Declaration of conformity (en) 298 kB, 04.03.2016 Code: mrl_bns36_en

Operating instructions and Declaration of conformity (es) 289 kB, 09.03.2016 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) 301 kB, 03.06.2016 Code: mrl_bns36_pt

Operating instructions and Declaration of conformity (fr) 299 kB, 03.06.2016 Code: mrl_bns36_fr

Operating instructions and Declaration of conformity (de) 266 kB, 13.12.2012 Code: mrl_bns36_de

Operating instructions and Declaration of conformity (de) 300 kB, 04.03.2016 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) 329 kB, 03.06.2016 Code: mrl_bns36_pl

Operating instructions and Declaration of conformity (it) 295 kB, 03.06.2016 Code: mrl_bns36_it

Operating instructions and Declaration of conformity (cs) 322 kB, 04.06.2012 Code: mrl_bns36_cs

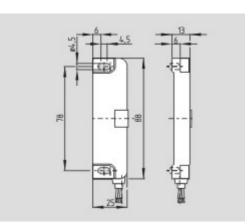
Operating instructions and Declaration of conformity (jp) 385 kB, 31.10.2013 Code: mrl_bns36_jp

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

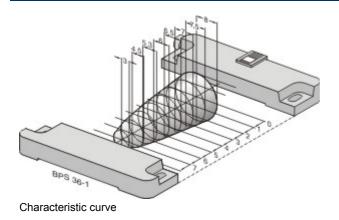
Code: mrl_bns36_cn

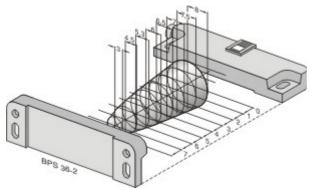
EAC certification (ru) 782 kB, 05.10.2015 Code: q_6044p17_ru

Images

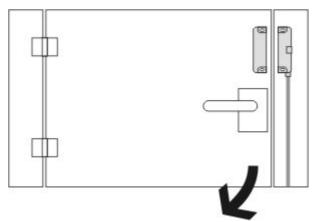


Dimensional drawing (basic component)





Characteristic curve



Operating principle

System components

Actuator	101190052 - BPS 36-1
SCHERINGEL CC	 Actuator and sensor on a mounting level
	101191859 - BPS 36-2
SEMERATION. CE	Actuator 90° attached to the sensor
197351 m	
Accessories	
	101188624 - SPACER BNS 36
6 B	 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 18.07.2016 - 18:36:26h Kasbase 3.2.4.F.64l