15.07.2016

21:52:57h

Datasheet - BNS 260-02/01Z-ST-L

Safety sensors / BNS 260

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 BNS 260-02/01Z-ST-L 101184378 4030661321769 27-27-24-02

Approval Approval



Classification

Standards
B10d Opener (NC)
- notice
Mission time
notice

EN ISO 13849-1 25.000.000 at max. 20% contact load 20 Years $MTTF_{d} = \frac{B_{10d}}{0.1 \times n_{op}}$ $n_{op} = \frac{d_{op} \times h_{op} \times 3600 \text{ s/h}}{t_{oxele}}$

Global Properties

SCHMERSAL

- Thermoplastic enclosure
- Small body
- Concealed mounting possible
- 26 mm x 36 mm x 13 mm
- Long life
- no mechanical wear
- Insensitive to transverse misalignment
- Insensitive to soiling
- Connector 8 mm, 6-pole, Latching interlocking

Standards	IEC 60947-5-3, BG-GS-ET-14
Compliance with the Directives (Y/N) CE	Yes
Materials	
- Material of the housings	Plastic, glass-fibre reinforced thermoplastic
Weight	15 g
Coding available (Y/N)	Yes
Monitoring function of downstream devices (Y/N)	No
Prerequisite evaluation unit	
Recommended safety-monitoring module	
Recommended actuator	BPS 260

Mechanical data

Design of electrical connection	Connector 8 mm, 6-pole, Latching interlocking
mechanical installation conditions	quasi-flush
Active area	
Ensured switch distance ON Sao	5 mm
Ensured switch distance OFF Sar	15 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 VA

Outputs

Design of control output	
Number of shutters	0 piece
Number of openers	3 piece
Design of output signal switching device	

Electrical data - Safety outputs

Number of secure semi-conductor outputs	0 piece
Number of secure outputs with contact	2 piece
Electrical data - Diagnostic output	
Number of semi-conductor outputs with signaling function	0 piece
Number of outputs with signaling function that already have a contact	1 piece
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	26 mm
- Height of sensor	36 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. The number in brackets indicate the PIN number of the connector. Contact S21-S22 und S11-S12 must be integrated in the safety circuit

Included in delivery

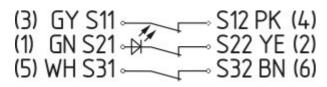
Actuators must be ordered separately.

Indication legend

Switch on/off diagram

The actuating graph also applies to the BPS 260-2, the actuator with 90° inverted actuation.

Diagram



Note Diagram → positive break NC contact ① active

Ordering code

BNS 260-(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 (pt) 298 kB, 06.04.2016 Code: mrl_bns260_pt

Operating instructions and Declaration of conformity (cs) 326 kB, 24.02.2016 Code: mrl_bns260_cs

Operating instructions and Declaration of conformity (fr) 299 kB, 29.04.2016 Code: mrl_bns260_fr

Operating instructions and Declaration of conformity (de) 301 kB, 04.03.2016 Code: mrl_bns260_de

Operating instructions and Declaration of conformity (it) 293 kB, 06.04.2016 Code: mrl_bns260_it

Operating instructions and Declaration of conformity (nl) 269 kB, 05.04.2013 Code: mrl_bns260_nl

Operating instructions and Declaration of conformity (pl) 326 kB, 06.04.2016 Code: mrl_bns260_pl

Operating instructions and Declaration of conformity (sv) 283 kB, 17.06.2015 Code: mrl_bns260_sv

Operating instructions and Declaration of conformity (jp) 451 kB, 07.07.2016 Code: mrl_bns260_jp

Operating instructions and Declaration of conformity (en) 300 kB, 04.03.2016

Code: mrl_bns260_en

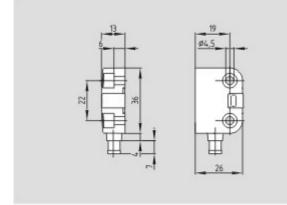
Operating instructions and Declaration of conformity (es) 290 kB, 09.03.2016

Code: mrl_bns260_es

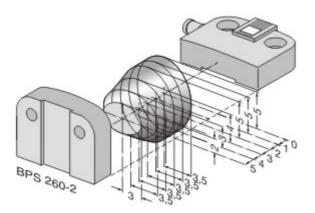
Operating instructions and Declaration of conformity (da) 286 kB, 24.09.2015 Code: mrl_bns260_da

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

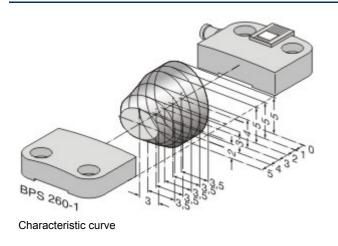
Images

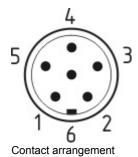


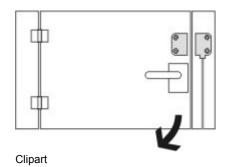
Dimensional drawing (basic component)



Characteristic curve







System components

Actuator



101184395 - BPS 260-1

· Actuator and sensor on a mounting level



101184396 - BPS 260-2

 \bullet Actuator 90 $^\circ$ attached to the sensor





101184643 - SPACER BNS 260

to mount the magnetic safety sensor and actuator on ferromagnetic material

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The data and values have been checked throroughly. Technical modifications and errors excepted. Generiert am 15.07.2016 - 21:52:58h Kasbase 3.2.4.F.64l