13.02.2019

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SCHMERSAL

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

Safety sensors / BNS 36

X Preferred typ



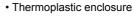
(Minor differences between the printed image and the original product may exist!) $\label{eq:magnetized}$

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-R 101193247 4030661359939 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 = $\frac{B_{100}}{0.1 \times n_{op}}$ $n_{op} = \frac{d_{op} \times h_{op} \times 3600 \text{ s/h}}{0.000 \text{ s/h}}$

t _{oyole}

Global Properties

| Permanent light | BNS 36 |
|---|--|
| Standards | IEC 60947-5-3, BG-GS-ET-14 |
| Compliance with the Directives (Y/N) C ϵ | 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 | right |

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.

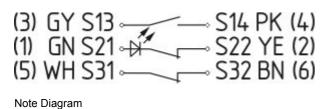
Contact symbols shown for the closed condition of the guard device.

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

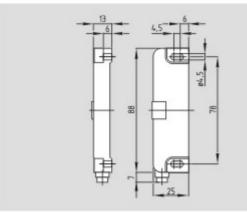
Operating instructions and Declaration of conformity (br) 289 kB, 18.12.2018

Code: mrl_bns36_br

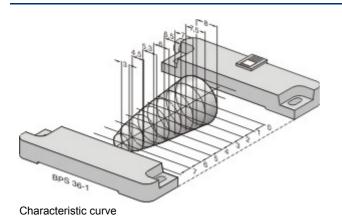
EAC certification (ru) 782 kB, 05.10.2015

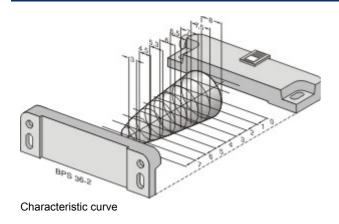
Code: q_6044p17_ru

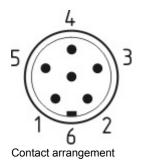
Images

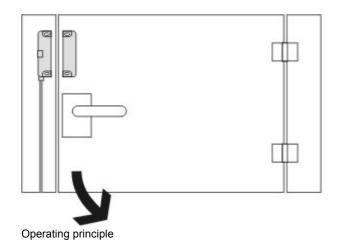


Dimensional drawing (basic component)









System components

| Actuator | |
|-------------|--|
| | 101190052 - BPS 36-1 |
| MARKEN CE | Actuator and sensor on a mounting level |
| | |
| | 101191859 - BPS 36-2 |
| METERSON CE | Actuator 90 ° attached to the sensor |
| | |
| Accessories | |
| | 101188624 - SPACER BNS 36 |
| 6 6 | 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 - 14:26:36h Kasbase 3.3.0.F.64I