Datasheet - BNS 40S-12Z

Safety sensors / BNS 40S





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

- · Stainless steel enclosure
- · Cable connection suitable for the food industry
- · Concealed mounting possible
- 88 mm x 27 mm x 14,5 mm
- · Long life
- · no mechanical wear
- · Insensitive to soiling
- · Insensitive to transverse misalignment
- · Suitable for food processing industry

Ordering details

Product type description

Article number

EAN code

BNS 40S-12Z 101215517

Approval

Approval



BG under preparation



Classification

Standards

B_{10d} 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

$$MTTF_d = \frac{B_{10d}}{0.1 \times n_{op}}$$

$$n_{op} = \frac{d_{op} \times h_{op} \times 3600 \text{ s/h}}{t_{oyole}}$$

Global Properties

Product name

Standards

Compliance with the Directives (Y/N) €€

Materials

- Material of the housings

- Material of the cable mantle

Weight

Coding available (Y/N)

Concealed threaded holes on the back (Y/N) Monitoring function of downstream devices (Y/N) Prerequisite evaluation unit

BNS 40S

IEC 60947-5-3, BG-GS-ET-14

Yes

Stainless steel (V4A)

LiYY

Yes

No Nο Yes

Recommended safety-monitoring module

AES 1135, AES 1136, AES 1165, AES 1166, AES 1165-2250, AES 1185, AES 1235, AES 1236, AES 1265, AES 1266, AES 1337, AES 2135, AES 2136, AES 2335, AES 2336, AES 2536, AES 2536, AES 2565, AES 2566, AES 2285, AES 3075, SRB 202C., SRB 400C., AES 3075

Recommended actuator

BPS 40S-1, BPS 40S-2, BPS 40S-1-C, BPS 40S-2-C

head-on with regard to the active surface

Mechanical data

Design of electrical connection Cable

Cable length 1 m

Conductors 6 x 0,25 mm²

AWG-Number 23

mechanical installation conditions not flush

Active area Side

Ensured switch distance ON Sao 8 mm

Ensured switch distance OFF Sar 18 mm

Type of actuation Magnet

restistance to shock 30 g / 11 ms

Resistance to vibration 10 ... 55 Hz, Amplitude 1 mm

Ambient conditions

Direction of motion

Ambient temperature

- Min. environmental temperature -25 °C
- Max. environmental temperature +80 °C

Storage and transport temperature

Min. Storage and transport temperature
 Max. Storage and transport temperature
 Protection class

Electrical data

Integrated Safety monitoring module available (Y/N)

Cross circuit/short circuit recognition possible (Y/N)

Voltage type

VAC/DC

Switch frequency

max. 5 Hz

Switching voltage100 max. VAC/DCSwitching current250 mA max.Switching capacity3 W max.

Outputs

Design of control output Other, Reed contakts

Number of shutters 1 piece
Number of openers 2 piece

Electrical data - Safety outputs

Number of secure semi-conductor outputs 0 piece

Number of secure outputs with contact 0 piece

Electrical data - Diagnostic output

No

Number of semi-conductor outputs with signaling function	0 piece
Number of outputs with signaling function that already have a contact	0 piece

LED switching conditions display

LED switching conditions display (Y/N)

ATEX

Explosion protection categories for gases

None
Explosion protected category for dusts

None

Dimensions

Dimensions of the sensor

- Width of sensor
- Height of sensor
- Length of sensor
14.5 mm

notice

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

Contact S21-S22 must be integrated in the safety circuit

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

Included in delivery

Actuators must be ordered separately.

Ordering code

BNS 40S-12Z(1)-(2)

() (

without without LED switching conditions display

G with LED switching conditions display

(2)

(1)

without With countersunk mounting holes Ø 4.2 mm

C M4

Documents

Operating instructions and Declaration of conformity (da) 285 kB, 08.08.2012

Code: mrl_bns40s_da

Operating instructions and Declaration of conformity (de) 542 kB, 09.12.2010

Code: mrl_bns40s_de

Operating instructions and Declaration of conformity (sv) 282 kB, 16.04.2012

Code: mrl_bns40s_sv

Operating instructions and Declaration of conformity (fr) 285 kB, 16.04.2012

Code: mrl_bns40s_fr

Operating instructions and Declaration of conformity (jp) 361 kB, 24.05.2012

Code: mrl_bns40s_jp

Operating instructions and Declaration of conformity (pl) 283 kB, 24.05.2012

Code: mrl_bns40s_pl

Operating instructions and Declaration of conformity (pt) 286 kB, 16.04.2012

Code: mrl_bns40s_pt

Operating instructions and Declaration of conformity (it) 282 kB, 16.04.2012

Code: mrl_bns40s_it

Operating instructions and Declaration of conformity (nl) 280 kB, 08.11.2012

Code: mrl_bns40s_nl

Operating instructions and Declaration of conformity (es) 308 kB, 06.07.2012

Code: mrl_bns40s_es

Operating instructions and Declaration of conformity (en) 457 kB, 14.01.2011

Code: mrl_bns40s_en

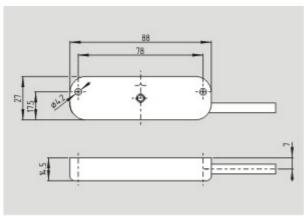
ECOLAB certification (en) 382 kB, 25.04.2012

Code: q_bnsp02

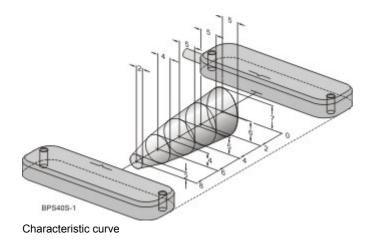
ECOLAB certification (de) 383 kB, 25.04.2012

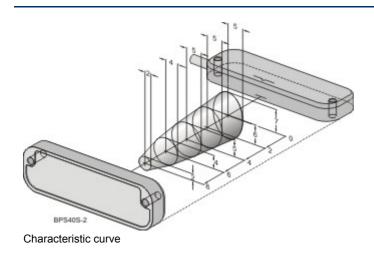
Code: q_bnsp01

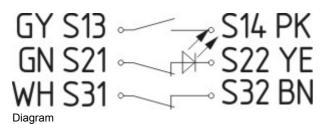
Images



Dimensional drawing (basic component)







System components

Actuator



101215267 - BPS 40S-2-C

- Stainless steel enclosure
- \bullet Actuator 90 $^\circ$ attached to the sensor

101215266 - BPS 40S-1-C



- Stainless steel enclosure
- Actuator and sensor on a mounting level

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101215269 - BPS 40S-2

- Stainless steel enclosure
- Actuator 90 ° attached to the sensor



101215268 - BPS 40S-1

- Stainless steel enclosure
- Actuator and sensor on a mounting level



K.A. Schmersal GmbH & Co. KG, Möddinghofe 30, D-42279 Wuppertal
The data and values have been checked throroughly. Technical modifications and errors excepted.
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