13.02.2019

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Datasheet - BNS 40S-12ZG-C

Safety sensors / BNS 40S





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

- 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
- LED version
- · especially easy to clean through concealed threaded holes at the rear

Ordering details

Product type description
Article number
EAN Code
eCl@ss

BNS 40S-12ZG-C 101215515

27-27-24-02

Approval

Approval



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 $MTTF_{d} = \frac{B_{100}}{0.1 \times n_{op}}$ $n_{op} = \frac{d_{op} \times h_{op} \times 3600 \text{ s/h}}{t_{cycle}}$

Global Properties

Permanent light	BNS 40S
Standards	IEC 60947-5-3, BG-GS-ET-14
Compliance with the Directives (Y/N) CE	Yes
Materials	
- Material of the housings	Stainless steel (V4A)
- Material of the cable mantle	LiYY
Weight Coding available (Y/N)	Yes

Concealed threaded holes on the back (Y/N) Monitoring function of downstream devices (Y/N) Prerequisite evaluation unit Recommended safety-monitoring module Yes No Yes 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 2535, AES 2536, AES 2365, AES 2565, AES 2566, AES 2285, AES 3075, SRB202C., SRB400C., AES 3075 BPS 40S-1, BPS 40S-2, BPS 40S-1-C, BPS 40S-2-C

Recommended actuator

Mechanical data

Design of electrical connection	Cable
Cable length	1
Conductors	6 x 0,25
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
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

Ambient conditions

-25
+80
-25
+80
IP69K

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	24 max. VDC
Switching current	10 mA max.
Switching capacity	240 mW max.

Outputs

Design of control output	Other, Reed contakts
Number of shutters	1
Number of openers	2

Electrical data - Safety outputs

Number of secure semi-conductor outputs	
Number of secure outputs with contact	

Electrical data - Diagnostic output

-	
Number of semi-conductor outputs with signaling function	0
Number of outputs with signaling function that already have a contact	0
LED switching conditions display	
LED switching conditions display (Y/N)	Yes
- The LED is illuminated when the guard is closed.	
ATEX	
Explosion protection categories for gases	None
Explosion protected category for dusts	None
Dimensions	
Dimensions of the sensor	
- Width of sensor	88
- Height of sensor	27
- Length of sensor	14.5

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 <mark>(1)-(2)</mark>	
(1)	
without	without LED switching conditions display
G	with LED switching conditions display
(2)	
without	With countersunk mounting holes Ø 4.2 mm
С	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) 286 kB, 04.10.2017 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) 290 kB, 27.03.2017 Code: mrl_bns40s_fr

Operating instructions and Declaration of conformity (jp) 408 kB, 03.01.2018 Code: mrl_bns40s_jp

Operating instructions and Declaration of conformity (pl) 318 kB, 22.05.2017 Code: mrl_bns40s_pl

Operating instructions and Declaration of conformity (pt) 292 kB, 10.05.2017 Code: mrl_bns40s_pt

Operating instructions and Declaration of conformity (it) 286 kB, 26.06.2017 Code: mrl_bns40s_it

Operating instructions and Declaration of conformity (nl) 302 kB, 03.07.2018 Code: mrl_bns40s_nl

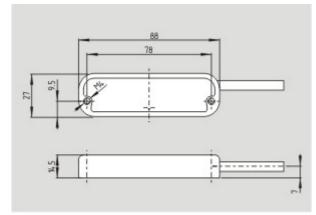
Operating instructions and Declaration of conformity (es) 290 kB, 07.04.2017 Code: mrl_bns40s_es

Operating instructions and Declaration of conformity (en) 289 kB, 04.10.2017 Code: mrl_bns40s_en

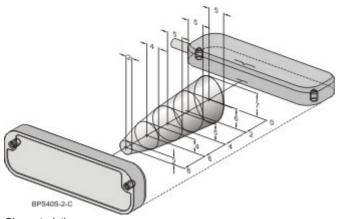
ECOLAB certification (en) 382 kB, 25.04.2012 Code: q_bnsp02

ECOLAB certification (de) 383 kB, 25.04.2012 Code: q_bnsp01

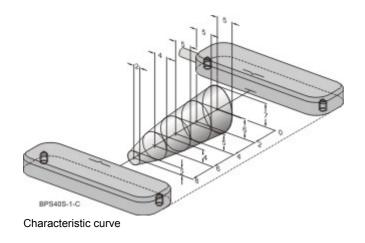
Images



Dimensional drawing (basic component)



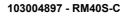
Characteristic curve



System components

Product





- · Door stop with magnetic latching
- combinable from all sides
- Latching force mounting-dependent
- Stainless steel enclosure

103004893 - RM40S-1C

Stainless steel enclosureInsensitive to soiling

- Insensitive to soiling
- Suitable for food processing industry

Door stop with magnetic latchingcombinable from all sides

· Latching force mounting-dependent

· Suitable for food processing industry





103004896 - RM40S

- Door stop with magnetic latching
- combinable from all sides
- Latching force mounting-dependent
- Stainless steel enclosure
- · Insensitive to soiling
- Suitable for food processing industry



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 - 14:27:08h Kasbase 3.3.0.F.64I