



BNS 40S-12Z

- 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

Data

Ordering data

EAN (European Article Number)	4030661419275
eCl@ss number, Version 9.0	27-27-24-02
eCl@ss number, Version 11.0	27-27-24-02
ETIM number, version 6.0	EC002544
ETIM number, version 7.0	EC002544

Approval - Standards

Certificates	TÜV
	BG
	cULus
	ECOLAB
	EAC

General data

Standards	IEC 60947-5-3 BG-GS-ET-14
Coding level according to ISO 14119	Low
Active principle	Magnetic drive
Installation conditions (mechanical)	not flush
Enclosure material	Stainless steel (V4A)
Gross weight	250 g

General data - Features	
Concealed, threaded holes on the back	No
Prerequisite evaluation unit	Yes
Number of openers	2
Number of shutters	1
Number of cable wires	6

Safety appraisal	
Standards	EN ISO 13849-1
Mission Time	20 Year(s)

Safety appraisal - Safety outputs	
B10d- Value Normally-closed contact/Normally open contact (NC/NO)	25,000,000 Operations

Mechanical data	
Active area	lateral
Actuating element	Magnet
Direction of motion	Head-on to the active surface

Mechanical data - Switching distances according IEC 60947-5-3

Ensured switch distance "ON" S_{ao}	8 mm
Ensured switch distance "OFF" S_{ar}	18 mm

Mechanical data - Connection technique

Terminal Connector	Cable
Length of cable	1 m
Wire cross-section	0.25 mm ²
Wire cross-section	23 AWG
Material of the Cable mantle	LiYY

Mechanical data - Dimensions

Length of sensor	14.5 mm
Width of sensor	88 mm
Height of sensor	27 mm

Ambient conditions

Degree of protection	IP69K
Ambient temperature, minimum	-25 °C
Ambient temperature, maximum	+80 °C
Storage and transport temperature, minimum	-25 °C
Storage and transport temperature, maximum	+80 °C
Resistance to vibrations to EN 60068-2-6	10 ... 55 Hz, amplitude 1 mm
Resistance to shock	30 g / 11 ms

Electrical data

Voltage type	AC (alternating current) DC (direct current)
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Switching voltage, maximum	100 VAC
Switching voltage, maximum	100 VDC
Switching current, maximum	0.25 A
Switching capacity, maximum	3 W
Switching frequency, maximum	5 Hz

Electrical data - Digital Output

Versions	Miscellaneous, Reed contacts
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Scope of delivery

Included in delivery	Actuators must be ordered separately.
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Accessory

Recommendation (actuator)	BPS 40S-2 BPS 40S-1-C BPS 40S-2-C
Recommended safety switchgear	SRB-E-301ST SRB-E-201LC

Notes

Note (General)	Contact symbols shown for the closed condition of the guard device. The contact configuration for versions with or without LED is identical.
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Circuit example

Note (Wiring diagram)	Contact S21-S22 must be integrated in the safety circuit.
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Schmersal, Inc., 15 Skyline Drive, Hawthorne, NY 10532

The details and data referred to have been carefully checked. Images may diverge from original. Further technical data can be found in the manual. Technical amendments and errors possible.

Generated on: 11/9/2021, 11:06 AM