



## BNS 16-12ZD-ST2

- Connector M12, 8-pole
- Thermoplastic enclosure
- Suitable for food processing industry
- Concealed mounting possible
- 52 mm x 90 mm x 32 mm
- Long life
- no mechanical wear
- Insensitive to transverse misalignment
- Insensitive to soiling
- Coded reed contact safety switch

## Data

### Ordering data

EAN (European Article Number)	4030661416496
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
	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	Glass-fibre, reinforced thermoplastic
Gross weight	150 g

## General data - Features

Prerequisite evaluation unit	Yes
Number of openers	2
Number of shutters	1

## 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
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## Mechanical data

Active area	cover-side
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
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Ensured switch distance "OFF" S <sub>ar</sub>	18 mm
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## Mechanical data - Connection technique

Terminal Connector	Connector M12
Connector position	Right

## Mechanical data - Dimensions

Length of sensor	39 mm
Width of sensor	52 mm
Height of sensor	90 mm

## Ambient conditions

Degree of protection	IP67
Ambient temperature, minimum	-25 °C
Ambient temperature, maximum	+70 °C
Storage and transport temperature, minimum	-25 °C
Storage and transport temperature, maximum	+70 °C
Resistance to vibrations to EN 60068-2-6	10 ... 55 Hz, amplitude 1 mm
Restistance to shock	30 g / 11 ms

## Electrical data

Voltage type	AC (alternating current) DC (direct current)
Switching voltage, maximum	100 VAC
Switching voltage, maximum	100 VDC
Switching current, maximum	0.4 A
Switching capacity, maximum	10 W
Switching frequency, maximum	5 Hz

## Electrical data - Digital Output

Versions

Miscellaneous, Reed contacts

## Scope of delivery

Included in delivery

Actuators must be ordered separately.

## Accessory

Recommendation (actuator)

BPS 16

Recommended safety switchgear

SRB-E-301ST

SRB-E-201LC

## Notes

Note (General)

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

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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.

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