



BNS 16-12ZD

- 3 cable entries M 20 x 1.5
- Wiring compartment
- 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

Product type description	BNS 16-12ZD
Article number (order number)	101172563
EAN (European Article Number)	4030661301167
eCl@ss number, version 12.0	27-27-44-01
eCl@ss number, version 11.0	27-27-24-02
eCl@ss number, version 9.0	27-27-24-02
ETIM number, version 7.0	EC002544
ETIM number, version 6.0	EC002544

Approvals - Standards

Certificates

cULus

General data

Standards	BG-GS-ET-14 EN IEC 60947-5-3
Coding level according to EN ISO 14119	Low
Working principle	Magnetic drive
Installation conditions (mechanical)	not flush
Housing material	Glass-fibre, reinforced thermoplastic
Gross weight	150 g

General data - Features

Coding	Yes
Prerequisite evaluation unit	Yes
Number of normally closed (NC)	2
Number of normally open (NO)	1

Safety classification

Standards	EN ISO 13849-1
Mission time	20 Year(s)

Safety classification - Safety outputs

B _{10D} - 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 EN IEC 60947-5-3

Assured switching distance "ON" S _{ao}	8 mm
Assured switching distance "OFF" S _{ar}	18 mm

Mechanical data - Connection technique

Termination	Screw terminals M20 x 1.5
Cable section, minimum	0.25 mm ²
Cable section, maximum	1.5 mm ²
Note	All indications including the conductor ferrules.
Wire cross-section	15 AWG

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	-25 ... +70 °C
Storage and transport temperature	-25 ... +70 °C
Resistance to vibrations	10 ... 55 Hz, amplitude 1 mm
Resistance to shock	30 g / 11 ms

Electrical data

Switching voltage, maximum	100 VAC
Switching voltage, maximum	100 VDC
Switching current, maximum	0.4 A
Switching capacity, maximum	10 W
Switching element	1 NO contact, 2 NC contacts
Switching frequency, maximum	5 Hz

Electrical data - Digital Output

Design of control elements

Miscellaneous, Reed contacts

Scope of delivery

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Actuator must be ordered separately.

Accessory

Recommendation (actuator)

BPS 16

Recommended safety switchgear

SRB-E-301ST

SRB-E-201LC

Note

Note (General)

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

Ordering code

Product type description:
BNS 16-(1)Z(2)-(3)

(1)

11 1 NO contact / 1 NC contact (Only for connector version)

12 1 NO contact/2 NC contacts

(2)

V Actuating planes front side

R Actuating planes right-hand side

L Actuating planes left-hand side

D Actuating planes cover-side

U Actuating planes bottom

LR Actuating planes left-hand side/right-hand side

(3)

