



BNS 303-12Z

- Thermoplastic enclosure
- Long life
- Suitable for food processing industry only in combination with BPS 303 SS
- no mechanical wear
- Ø M30
- Insensitive to transverse misalignment
- Insensitive to soiling

Data

Ordering data

EAN (European Article Number)	4030661048987
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
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General data

Standards	IEC 60947-5-3 BG-GS-ET-14
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Coding level according to ISO 14119	Low
Active principle	Magnetic drive
Installation conditions (mechanical)	quasi-flush
Enclosure material	Glass-fibre, reinforced thermoplastic
Material of the nuts	Thermoplastic
Gross weight	64 g

General data - Features

Number of openers	2
Number of shutters	1
Number of safety contacts	2
Number of cable wires	4

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

Actuating element	Magnet
Direction of motion	Head-on to the active surface
Tightening torque of nuts, maximum	3 Nm

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

Ensured switch distance "ON" S_{ao}	5 mm
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Ensured switch distance "OFF" S _{ar}	15 mm
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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	PVC

Mechanical data - Dimensions

ISO thread of the sensor	M30
width across flats	36 BK
Length of sensor	44 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
Resistance 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
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Scope of delivery

Included in delivery	Actuators must be ordered separately.
Delivery scope of Mounting material	2x Mounting material M30 x 1.5 nuts

Accessory

Recommendation (actuator)	BPS 300 BPS 303 BPS 303 SS
Recommended safety switchgear	SRB 301AN 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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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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