



BNS 303-11Z 2,0M

- 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)	4030661049076
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)	quasi-flush
Enclosure material	Glass-fibre, reinforced thermoplastic
Material of the nuts	Thermoplastic
Gross weight	95 g

General data - Features

Number of openers	1
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
---	-----------------------

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
---------------------------------------	------

Ensured switch distance "OFF" S _{ar}	15 mm
---	-------

Mechanical data - Connection technique

Terminal Connector	Cable
Length of cable	2 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
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.
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.
----------------	---

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, 11:26 AM