



BNS 303-11ZG-2211 5,0M

- 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

Product type description	BNS 303-11ZG-2211 5,0M
Article number (order number)	101179284
EAN (European Article Number)	4030661311852
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	TÜV 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)	quasi-flush
Enclosure material	Glass-fibre, reinforced thermoplastic
Material of the nuts	Thermoplastic
Gross weight	230 g

General data - Features

Integral system diagnostics, status	Yes
Number of normally closed (NC)	1
Number of normally open (NO)	1
Number of safety contacts	2
Number of cable wires	4

Safety classification

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

Mechanical data

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	Cable
Length of cable	5 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	-25_+70
---------------------	---------

Storage and transport temperature, minimum	-25 °C
-----------------------------------------------	--------

Storage and transport temperature, maximum	+70 °C
-----------------------------------------------	--------

Resistance to vibrations	10 ... 55 Hz, amplitude 1 mm
--------------------------	------------------------------

Restistance to shock	30 g / 11 ms
----------------------	--------------

Electrical data

Switching current, maximum	0.4 A
----------------------------	-------

Switching capacity, maximum	10 W
-----------------------------	------

Switching frequency, maximum	5 Hz
------------------------------	------

Electrical data - Digital Output

Design of control elements	Miscellaneous, Reed contacts
----------------------------	------------------------------

Status indication

Note (Integral System Diagnostics, status)	The LED is illuminated when the guard door is open.
---------------------------------------------	-----------------------------------------------------

Scope of delivery

Scope of delivery	Actuators must be ordered separately.
Scope of delivery of mounting material	2x Mounting material M30 x 1.5 nuts

Accessory

Recommendation (actuator)	BPS 300 BPS 303 BPS 303 SS
---------------------------	----------------------------------

Note

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

Ordering code

Product type description:
BNS 303-(1)Z(2)-(3)-(4)

(1)

11	1 NO contacts/1 NC contact
12	1 NO contact/2 NC contacts
02	- / 2 NC contacts
03	- / 3 NC contacts

(2)

without	without LED switching conditions display
G	with LED switching conditions display

(3)

without	with cable
ST	with connector M12

(4)

2187

Individual contact outlet

2211

higher switching distance

Pictures

Product picture (catalogue individual photo)

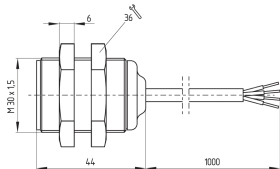


ID: kbns3f03

| 170.5 kB | .jpg | 352.778 x 118.533 mm - 1000 x 336 px - 72 dpi

| 11.3 kB | .png | 74.083 x 24.694 mm - 210 x 70 px - 72 dpi

Dimensional drawing basic component



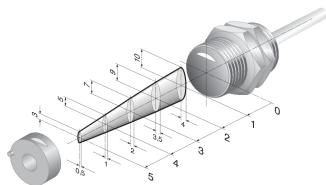
ID: 1bns3g02

| 30.4 kB | .cdr |

| 5.7 kB | .png | 74.083 x 51.506 mm - 210 x 146 px - 72 dpi

| 66.5 kB | .jpg | 352.778 x 245.886 mm - 1000 x 697 px - 72 dpi

Characteristic curve



ID: kbns3a02

| 17.7 kB | .png | 74.083 x 42.333 mm - 210 x 120 px - 72 dpi

| 148.1 kB | .jpg | 352.778 x 201.436 mm - 1000 x 571 px - 72 dpi

Schmersal Ltd., Sparrowhawk Close, WR14 1GL Malvern

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: 27/02/2023, 11:22