



BNS 303-12Z-2187 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 303-12Z-2187 5,0M
Article number (order number)	101166248
EAN (European Article Number)	4030661213774
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
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General data

Standards	BG-GS-ET-14 EN IEC 60947-5-3
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Coding level according to EN ISO 14119	Low
Working principle	Magnetic drive
Installation conditions (mechanical)	quasi-flush
Housing material	Glass-fibre, reinforced thermoplastic
Material of the nuts	Thermoplastic
Gross weight	225 g

General data - Features

Coding	Yes
Number of normally closed (NC)	2
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_{a0}	5 mm
Assured switching distance "OFF" S_{ar}	15 mm

Mechanical data - Connection technique

Length of cable	5 m
Termination	Cable

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 °C
Storage and transport temperature	-25 ... +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 element	1 NO contact, 2 NC contacts
Switching frequency, maximum	5 Hz

Electrical data - Digital Output

Design of control elements	Miscellaneous, Reed contacts
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Scope of delivery

Scope of delivery	Actuator 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
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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.
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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)



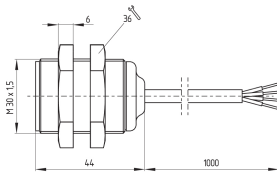
ID: kbns3f03

| 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

| 18.4 kB | .jpg | 123.472 x 41.628 mm - 350 x 118 px - 72 dpi

Dimensional drawing basic component



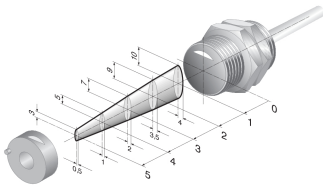
ID: 1bns3g02

| 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 India Pvt. Ltd., Plot No - G-7/1, Ranjangaon MIDC, Tal. - Shirur, Dist.- Pune 412 220

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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