



EX-BNS 303-12Z-2187-3G/D

- Explosion protection for ATEX Zones 2 and 22
- Thermoplastic enclosure
- Ø M30
- With coding
- Insensitive to transverse misalignment
- Suitable for food processing industry only in combination with BPS 303 SS
- no mechanical wear

Data

Ordering data

Product type description	EX-BNS 303-12Z-2187-3G/D
Article number (order number)	101185026
EAN (European Article Number)	4030661333113
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

Explosion protection

Explosion protection: regulations	EN IEC 60079-0 EN IEC 60079-15 EN 60079-31
Explosion protection zones	2 22
Explosion protection category	3G 3D
Explosion protection designation	II 3G Ex nC IIC T6 Gc X II 3D Ex tc IIIC T80°C Dc X

General data

Housing construction form	Cylinder, thread
Installation conditions (mechanical)	quasi-flush
Housing material	Glass-fibre, reinforced thermoplastic
Material of the nuts	Thermoplastic
Gross weight	95 g

General data - Features

Coding	Yes
Short circuit detection	Yes
Cross-circuit detection	Yes
Number of normally closed (NC)	2
Number of normally open (NO)	1
Number of safety contacts	2
Number of cable wires	6

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	front side
Actuating element	Magnet

Impact energy, maximum	4 J
Direction of motion	Head-on to the active surface
Tightening torque of nuts, maximum	3 Nm

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

Assured switching distance "ON" S_{ao}	5 mm
Assured switching distance "OFF" S_{ar}	15 mm

Mechanical data - Connection technique

Length of cable	1 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, minimum	-25 °C
Storage and transport temperature, maximum	+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 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 nuts M30 x 1.5

Accessory

Recommendation (actuator)	BPS 300 BPS 303 BPS 303 SS coded
Recommended safety switchgear	SRB-E-301ST SRB-E-201LC

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:
EX-BNS 303-(1)Z(2)-3G/D

(1)

12

1 NO contact/2 NC contacts

03

3 NC contact

(2)

without

without LED switching conditions display

G

with LED switching conditions display

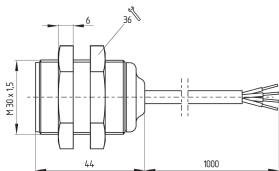
Pictures

Product picture (catalogue individual photo)



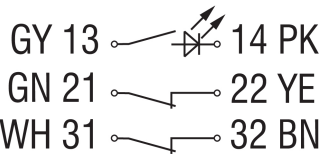
ID: kexbnf04
| 424.9 kB | .jpg | 311.856 x 468.136 mm - 884 x 1327 px - 72 dpi
| 39.4 kB | .png | 74.083 x 111.125 mm - 210 x 315 px - 72 dpi
| 32.8 kB | .jpg | 82.197 x 123.472 mm - 233 x 350 px - 72 dpi

Dimensional drawing basic component



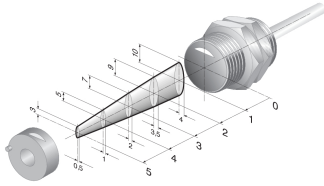
ID: 1bns3g02
| 30.4 kB | .cdr |
| 5.7 kB | .png | 74.083 x 51.506 mm - 210 x 146 px - 72 dpi
| 66.5 kB | .jpg | 352.778 x 245.886 mm - 1000 x 697 px - 72 dpi

Diagram



ID: k2o1sk09
| 28.5 kB | .cdr |
| 92.2 kB | .jpg | 352.778 x 162.278 mm - 1000 x 460 px - 72 dpi
| 4.0 kB | .png | 74.083 x 34.219 mm - 210 x 97 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

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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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