



BNS 303-12ZG

- LED version
- 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 303-12ZG
Article number (order number)	101138261
EAN (European Article Number)	4030661281131
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	66 g

General data - Features

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

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

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

Mechanical data - Switching distances

Assured switching distance "ON" S _{ao}	5 mm
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Assured switching distance "OFF" S_{ar}	15 mm
Note (switching distance)	All switching distances in accordance EN IEC 60947-5-3

Mechanical data - Connection technique

Length of cable	1 m
Termination	cable
Number of cable wires	4
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 voltage, maximum	24 VDC
Switching current, maximum	0.01 A
Switching capacity, maximum	0.24 W
Switching element	1 NO contact, 2 NC contacts
Switching principle	Reed contacts, Non-contact principle
Switching frequency, maximum	5 Hz

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

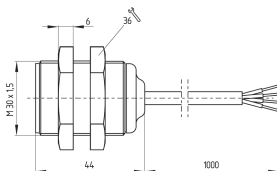
| 11.3 kB | .png | 74.083 x 24.694 mm - 210 x 70 px - 72 dpi

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

| 14.7 kB | .png | 74.083 x 74.083 mm - 210 x 210 px - 72 dpi

| 1.1 MB | .png | 166.557 x 55.88 mm - 2000 x 671 px - 305 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

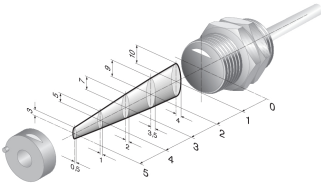


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| 48.4 kB | .jpg | 352.778 x 77.258 mm - 1000 x 219 px - 72 dpi

| 2.9 kB | .png | 74.083 x 16.228 mm - 210 x 46 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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