



## BNS 250-12ZG 5,0M

- LED version
- Thermoplastic enclosure
- small body
- Concealed mounting possible
- 33 mm x 25 mm x 13 mm
- Long life
- no mechanical wear
- Insensitive to transverse misalignment
- Insensitive to soiling

## Data

### Ordering data

Product type description	BNS 250-12ZG 5,0M
Article number (order number)	101145341
EAN (European Article Number)	4030661137025
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
--------------	-------

### 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)	not flush
Housing material	Glass-fibre, reinforced thermoplastic
Gross weight	188 g

### General data - Features

Coding	Yes
Integral system diagnostics, general	Yes
Prerequisite evaluation unit	Yes
Number of normally closed (NC)	2
Number of normally open (NO)	1
Number of cable wires	4

### Safety classification

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

### Safety classification - Safety outputs

B <sub>10D</sub> Normally-closed contact (NC)	25,000,000 Operations
B <sub>10D</sub> - Value Normally-closed contact/Normally open contact (NC/NO)	25,000,000 Operations

### Mechanical data

Active area	front side
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" $S_{ao}$	4 mm
Assured switching distance "OFF" $S_{ar}$	14 mm

### Mechanical data - Connection technique

Length of cable	5 m
Termination	Cable
Wire cross-section	0.25 mm <sup>2</sup>
Wire cross-section	23 AWG
Material of the Cable mantle	PVC

### Mechanical data - Dimensions

Length of sensor	13 mm
Width of sensor	33 mm
Height of sensor	25 mm

### Ambient conditions

Degree of protection	IP67
Ambient temperature	-25 ... +70 °C
Storage and transport temperature	-25 ... +70 °C
Resistance to vibrations	10 ... 150 Hz, amplitude 0.35 mm
Resistance 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 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

Actuator must be ordered separately.

## Accessory

Recommendation (actuator)

BPS 250

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.

## Ordering code

Product type description:

BNS 250-(1)Z(2)-(3)

(1)

---

**11**

1 NO contacts/1 NC contact

**12**

1 NO contact/2 NC contacts

(2)

---

**without**

without LED switching conditions display

**G**

with LED switching conditions display

