



## BNS 33-11Z

- Thermoplastic enclosure
- Concealed mounting possible
- Insensitive to transverse misalignment
- 88 mm x 25 mm x 13 mm
- Long life
- no mechanical wear
- Insensitive to soiling

## Data

### Ordering data

Product type description	BNS 33-11Z
Article number (order number)	101107770
EAN (European Article Number)	4030661024301
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
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	70 g

### General data - Features

Coding	Yes
Prerequisite evaluation unit	Yes
Number of normally closed (NC)	1
Number of normally open (NO)	1

### 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	lateral
Actuating element	Magnet
Direction of motion	Head-on to the active surface

### Mechanical data - Switching distances

Assured switching distance "ON" $S_{ao}$	5 mm 8 mm
Assured switching distance "OFF" $S_{ar}$	15 mm 18 mm
Note (switching distance)	All switching distances in accordance EN IEC 60947-5-3

Note (Repeat accuracy R)

Repeat accuracy  $R \leq 0,1 \times S_{a0}$

### Mechanical data - Connection technique

Length of cable	1 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	88 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 ... 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 element	1 NO contact, 1 NC contacts
Switching principle	Reed contacts, Non-contact principle
Switching frequency, maximum	5 Hz

## Scope of delivery

Scope of delivery Actuator must be ordered separately.

## Accessory

Recommendation (actuator)	BPS 33-2326 BPS 33
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 33-(1)Z(2)-(3)-(4)

(1)

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<b>02</b>	2 NC contact
<b>11</b>	1 NO contact/1 NC contact
<b>12</b>	1 NO contact/2 NC contacts

(2)

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<b>without</b>	without LED switching conditions display
<b>G</b>	with LED switching conditions display

(3)

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<b>without</b>	with cable
<b>ST</b>	with connector M8
<b>LST</b>	Connecting cable with connector M12

