



## BNS 260-02Z-ST-L-2750

- Thermoplastic enclosure
- small body
- Concealed mounting possible
- 26 mm x 36 mm x 13 mm
- Long life
- no mechanical wear
- Insensitive to transverse misalignment
- Insensitive to soiling

## Data

### Ordering data

Product type description	BNS 260-02Z-ST-L-2750
Article number (order number)	103027190
EAN (European Article Number)	4030661519555
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)	quasi-flush
Housing material	Glass-fibre, reinforced thermoplastic
Gross weight	43 g

### General data - Features

Coding	Yes
Number of normally closed (NC)	2
Number of safety contacts	2

### 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

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

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

Note (Switching distance $S_n$ )	Axial misalignment, a horizontal and vertical misalignment of the safety sensor and the actuator are tolerated. The possible misalignment depends on the distance of the active surfaces of the sensor and the actuator. The sensor remains active within the tolerance range.
Assured switching distance "ON" $S_{ao}$	8 mm
Assured switching distance "OFF" $S_{ar}$	18 mm

### Mechanical data - Connection technique

Termination	Connector M8, 4-pole, A-coded
Tightening torque of electrical connection	0.3 Nm

### Mechanical data - Dimensions

Length of sensor	13 mm
Width of sensor	26 mm
Height of sensor	36 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

### Ambient conditions - Insulation values

Rated insulation voltage $U_i$	75 VDC
Rated impulse withstand voltage $U_{imp}$	0.8 kV

## Electrical data

Required rated short-circuit current	100 A
Switching current, maximum	0.4 A
Switching capacity, maximum	10 VA
Switching element	2 NC contact
Switching frequency, maximum	5 Hz

## Scope of delivery

Scope of delivery	Actuator must be ordered separately.
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## Accessory

Recommendation (actuator)	BPS 260
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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## Wiring example

Note (Wiring diagram)	The contacts S11-S12 and S21-S22 must be integrated in the safety circuit.
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## Ordering code

Product type description:  
BNS 260-(1)(2)Z(3)-(4)-(5)

(1)

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

(2)

**without**

with diagnostic output

**/01**

1 NC contact

(3)

**without**

without LED switching conditions display

**G**

with LED switching conditions display

(4)

**without**

Pre-wired cable

**ST**

with connector

(5)

**L**

Door hinge on left-hand side

**R**

Door hinge on right-hand side

## Pictures

### Product picture (catalogue individual photo)



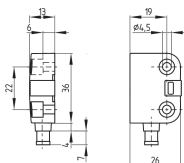
ID: kbns2f04

| 540.4 kB | .jpg | 352.778 x 287.161 mm - 1000 x 814 px - 72 dpi

| 42.3 kB | .png | 74.083 x 60.325 mm - 210 x 171 px - 72 dpi

| 63.9 kB | .jpg | 123.472 x 100.542 mm - 350 x 285 px - 72 dpi

### Dimensional drawing basic component



ID: 1bns2g06

| 25.6 kB | .cdr |

| 3.1 kB | .png | 74.083 x 51.506 mm - 210 x 146 px - 72 dpi

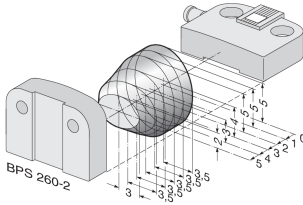
| 65.1 kB | .jpg | 352.778 x 245.181 mm - 1000 x 695 px - 72 dpi

## Diagram

(3) BK S11 → S12 BU (4)  
(1) WH S21 → S22 BN (2)

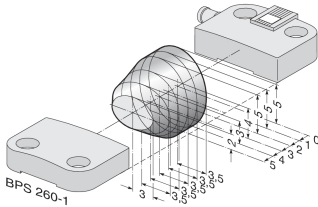
ID: kbns2k25  
| 56.8 kB | .jpg | 352.778 x 70.203 mm - 1000 x 199 px - 72 dpi  
| 2.6 kB | .png | 74.083 x 14.817 mm - 210 x 42 px - 72 dpi

## Characteristic curve



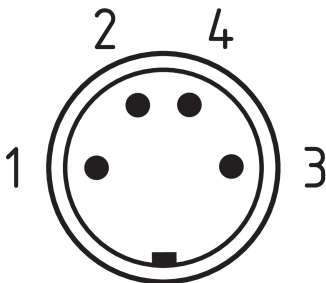
ID: kbns2d03  
| 18.5 kB | .png | 74.083 x 49.036 mm - 210 x 139 px - 72 dpi  
| 200.1 kB | .jpg | 352.778 x 233.892 mm - 1000 x 663 px - 72 dpi

## Characteristic curve



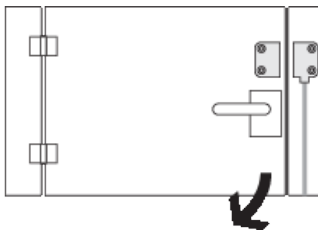
ID: kbns2d02  
| 19.2 kB | .png | 74.083 x 49.389 mm - 210 x 140 px - 72 dpi  
| 200.9 kB | .jpg | 352.778 x 235.303 mm - 1000 x 667 px - 72 dpi

## Contact arrangement



ID: km8--k4b  
| 17.0 kB | .cdr |  
| 4.3 kB | .png | 74.083 x 73.025 mm - 210 x 207 px - 72 dpi  
| 110.6 kB | .jpg | 352.778 x 347.133 mm - 1000 x 984 px - 72 dpi

## Clipart



ID: kbns2c02  
| 19.6 kB | .cdr |  
| 1.8 kB | .png | 74.083 x 52.211 mm - 210 x 148 px - 72 dpi