



## BNS 36-11Z-L

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

## Data

### Ordering data

Product type description	BNS 36-11Z-L
Article number (order number)	101193125
EAN (European Article Number)	4030661359748
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
Gross weight	65 g

### General data - Features

Coding	Yes
Number of normally closed (NC)	1
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 <sub>10D</sub> - Value Normally-closed contact/Normally open contact (NC/NO)	25,000,000 Operations
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### Mechanical data

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

### Mechanical data - Switching distances

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" $S_{ao}$	7 mm
Assured switching distance "OFF" $S_{ar}$	17 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 <sup>2</sup>
Wire cross-section	30 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	75 VDC
Switching current, maximum	0.4 A
Switching capacity, maximum	10 W
Switching element	1 NO contact, 1 NC contacts
Switching frequency, maximum	5 Hz

## Scope of delivery

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

Recommendation (actuator)	BPS 36-2 BPS 36-1
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:  
BNS 36-(1)(2)Z(3)-(4)-(5)

(1)	
<b>11</b>	1 NO contact/1 NC contact
<b>02</b>	2 NC contact
(2)	
<b>without</b>	with diagnostic output
<b>/01</b>	1 NC contact
<b>10</b>	1 NO contact

(3)		
<b>without</b>		without LED switching conditions display
<b>G</b>		with LED switching conditions display
(4)		
<b>without</b>		Pre-wired cable
<b>ST</b>		with connector
(5)		
<b>L</b>		Door hinge on left-hand side
<b>R</b>		Door hinge on right-hand side
(6)		
<b>2750</b>		Version with extended switching distance (in combination with actuator) BPS 36-1-2750 or BPS 36-2-2750)

## Pictures

### Product picture (catalogue individual photo)



ID: kbns3f34

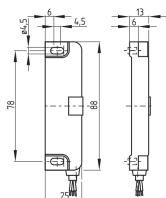
| 159.7 kB | .jpg | 352.778 x 93.133 mm - 1000 x 264 px - 72 dpi

| 19.6 kB | .png | 74.083 x 19.756 mm - 210 x 56 px - 72 dpi

| 19.5 kB | .png | 74.083 x 74.083 mm - 210 x 210 px - 72 dpi

| 1.4 MB | .png | 167.105 x 44.199 mm - 2000 x 529 px - 304 dpi

### Dimensional drawing basic component



ID: 1bns3g13

| 25.5 kB | .cdr |

| 3.2 kB | .png | 74.083 x 51.506 mm - 210 x 146 px - 72 dpi

| 62.4 kB | .jpg | 352.778 x 245.181 mm - 1000 x 695 px - 72 dpi

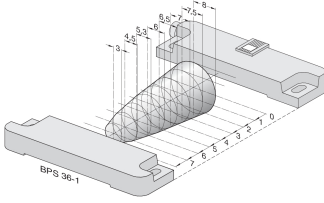
## Diagram

(3) BK S13 → S14 BU (4)  
(1) WH S21 → S22 BN (2)

ID: kbns2k27

| 56.4 kB | .jpg | 352.778 x 70.203 mm - 1000 x 199 px - 72 dpi  
| 2.7 kB | .png | 74.083 x 14.817 mm - 210 x 42 px - 72 dpi

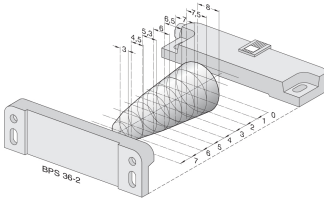
## Characteristic curve



ID: kbns3a29

| 165.7 kB | .jpg | 352.778 x 215.9 mm - 1000 x 612 px - 72 dpi  
| 110.2 kB | .png | 50.038 x 30.649 mm - 591 x 362 px - 300 dpi  
| 165.7 kB | .jpg | 352.778 x 215.9 mm - 1000 x 612 px - 72 dpi

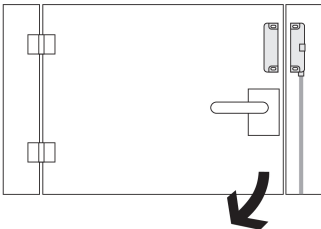
## Characteristic curve



ID: kbns3a30

| 16.9 kB | .png | 74.083 x 45.156 mm - 210 x 128 px - 72 dpi  
| 164.2 kB | .jpg | 352.778 x 215.547 mm - 1000 x 611 px - 72 dpi

## Operating principle



ID: kbn36c02

| 20.3 kB | .cdr |  
| 52.8 kB | .jpg | 352.778 x 248.356 mm - 1000 x 704 px - 72 dpi  
| 1.8 kB | .png | 74.083 x 52.211 mm - 210 x 148 px - 72 dpi

K.A. Schmersal GmbH & Co. KG, Möddinghofe 30, 42279 Wuppertal

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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