



BNS 36-02Z-ST-R

- Connector M8, 4-pole, Latching interlocking
- 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 36-02Z-ST-R
Article number (order number)	101189905
EAN (European Article Number)	4030661359984
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	30 g

General data - Features

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

Safety classification

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

Safety classification - Safety outputs

B _{10D} Normally-closed contact (NC)	25,000,000 Operations
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Mechanical data

Actuating element	Magnet
Door hinge	Right
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

Termination	Connector M8, 4-pole, screw terminal or snap fitting
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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
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Switching current, maximum	0.4 A
Switching capacity, maximum	10 W
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 36-2 BPS 36-1
Recommended safety switchgear	SRB-E-301ST SRB-E-201LC

Note

Note (General)	The number in brackets indicate the PIN number of the connector.
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Ordering code

Product type description:
BNS 36-(1)(2)Z(3)-(4)-(5)

(1)	
11	1 NO contact/1 NC contact
02	2 NC contact
(2)	
without	with diagnostic output
/01	1 NC contact
10	1 NO 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
(6)	
2750	Version with extended switching distance (in combination with actuator) BPS 36-1-2750 or BPS 36-2-2750)

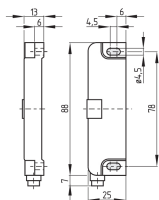
Pictures

Product picture (catalogue individual photo)

ID: kbns3f16

151.9 kB	.jpg	352.778 x 92.428 mm -	1000 x 262 px -	72 dpi
19.0 kB	.png	74.083 x 19.403 mm -	210 x 55 px -	72 dpi
19.0 kB	.png	74.083 x 19.403 mm -	210 x 55 px -	72 dpi

Dimensional drawing basic component



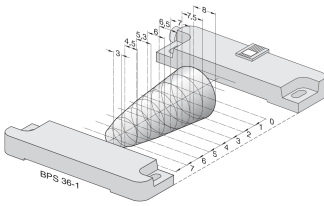
ID: 1bns3g14
| 24.1 kB | .cdr |
| 3.0 kB | .png | 74.083 x 51.506 mm - 210 x 146 px - 72 dpi
| 60.6 kB | .jpg | 352.778 x 245.181 mm - 1000 x 695 px - 72 dpi

Diagram



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



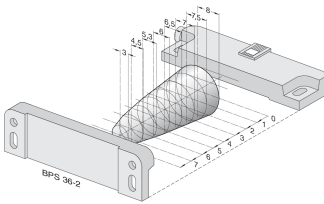
ID: kbns3a29

| 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

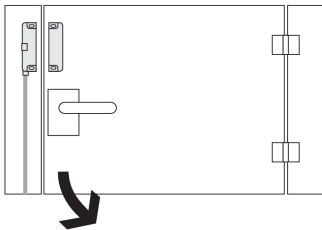


ID: kbns3a30

| 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



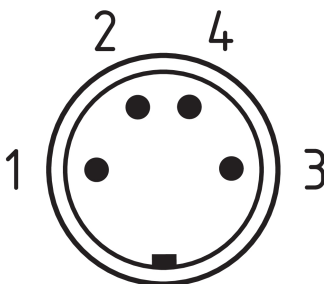
ID: kbns36c01

| 20.2 kB | .cdr |

| 52.3 kB | .jpg | 352.778 x 250.825 mm - 1000 x 711 px - 72 dpi

| 1.8 kB | .png | 74.083 x 52.564 mm - 210 x 149 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

Schmersal India Pvt. Ltd., Plot No - G-7/1, Ranjangaon MIDC, Tal. - Shirur, Dist.- Pune 412 220

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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