DATASHEET



BNS 260-02Z-ST-L

- Connector M8 x 1, 4-pole
- 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
Article number (order number)	101184377
EAN (European Article Number)	4030661321752
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	TÜV BG 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)	quasi-flush
Housing material	Glass-fibre, reinforced thermoplastic
Gross weight	32 g

General data - Features

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

Mechanical data

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

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

Note (Switching distance Sn)	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}	5 mm
Assured switching distance "OFF" S_{ar}	15 mm

Mechanical data - Connection technique

Termination	Connector M8
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, minimum	-25 °C
Storage and transport temperature, maximum	+70 °C
Resistance to vibrations	10 ... 55 Hz, amplitude 1 mm
Restistance to shock	30 g / 11 ms

Ambient conditions - Insulation values

Rated insulation voltage U_i	50 VAC
Rated impulse withstand voltage U_{imp}	0.8 kV

Electrical data

Required rated short-circuit current	100 A
Switching voltage, maximum	75 VDC
Switching current, maximum	0.4 A
Switching capacity, maximum	10 VA
Switching frequency, maximum	5 Hz

Scope of delivery

Scope of delivery	Actuator must be ordered separately.

Accessory

Recommendation (actuator)	BPS 260
Recommended safety switchgear	SRB-E-301ST SRB-E-201LC

Note

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

Wiring example

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

Ordering code

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

(1)

11	1 NO contacts/1 NC contact
02	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

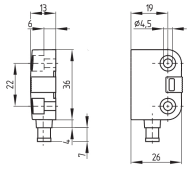
Pictures

Product picture (catalogue individual photo)



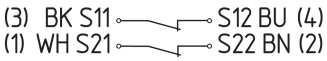
ID: kbns2f04
| 540.4 kB | .jpg | 352.778 x 287.161 mm - 1000 x 814 px - 72 dpi
| 42.3 kB | .png | 74.083 x 60.325 mm - 210 x 171 px - 72 dpi
| 63.9 kB | .jpg | 123.472 x 100.542 mm - 350 x 285 px - 72 dpi

Dimensional drawing basic component



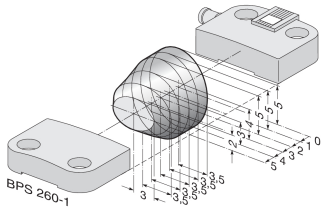
ID: 1bns2g06
| 25.6 kB | .cdr |
| 3.1 kB | .png | 74.083 x 51.506 mm - 210 x 146 px - 72 dpi
| 65.1 kB | .jpg | 352.778 x 245.181 mm - 1000 x 695 px - 72 dpi

Diagram



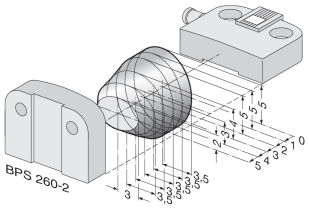
ID: kbns2k25
| 56.8 kB | .jpg | 352.778 x 70.203 mm - 1000 x 199 px - 72 dpi
| 2.6 kB | .png | 74.083 x 14.817 mm - 210 x 42 px - 72 dpi

Characteristic curve



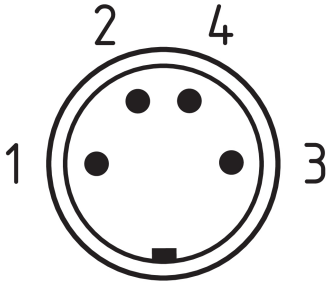
ID: kbns2d02
| 19.2 kB | .png | 74.083 x 49.389 mm - 210 x 140 px - 72 dpi
| 200.9 kB | .jpg | 352.778 x 235.303 mm - 1000 x 667 px - 72 dpi

Characteristic curve



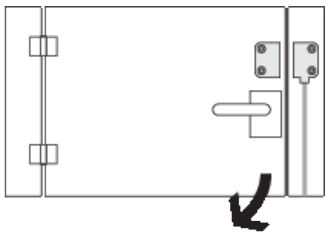
ID: kbns2d03
| 18.5 kB | .png | 74.083 x 49.036 mm - 210 x 139 px - 72 dpi
| 200.1 kB | .jpg | 352.778 x 233.892 mm - 1000 x 663 px - 72 dpi

Contact arrangement



ID: km8--k4b
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| 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

Schmersal Ltd., Sparrowhawk Close, WR14 1GL Malvern
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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