



BNS-B20-12ZG-ST-R

- Connector M12 x 1, 8-pole
- Thermoplastic enclosure
- Non-contact safety switch
- Does not protrude into the door opening
- 119,5 mm x 140 mm x 43,3 mm
- Substitutes door-handle and safety switch, no further door fittings required
- Modern and symmetric design
- Tamper-proof because of integral coded safety sensor
- Ergonomic operation
- Suitable for hinged and sliding guards
- No protruding actuator
- Simple mounting with 4 Screws

Data

Ordering data

Product type description	BNS-B20-12ZG-ST-R
Article number (order number)	101177734
EAN (European Article Number)	4030661309194
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	115 g

General data - Features

Coding	Yes
Integral system diagnostics, general	Yes
Number of normally closed (NC)	2
Number of normally open (NO)	1
Number of safety contacts	2
Number of cable wires	6

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

Actuating element	Magnet
Door hinge	Right
Latching force	100 N
Door weight, Sliding guard, maximal	3 kg

Door weight, Hinged guard, maximal 5 kg

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

Assured switching distance "ON" S_{ao} 0 mm
Assured switching distance "OFF" S_{ar} 22 mm

Mechanical data - Connection technique

Termination Connector M12

Mechanical data - Dimensions

Length of sensor 43.3 mm
Width of sensor 119.5 mm
Height of sensor 140 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 24 VDC
Switching current, maximum 0.01 A
Switching capacity, maximum 0.24 W
Switching frequency, maximum 5 Hz

Status indication

Note (Integral System Diagnostics, status) The LED is illuminated when the guard is closed.

Scope of delivery

Scope of delivery Actuator must be ordered separately.

Accessory

Recommendation (actuator)	BNS-B20-B01
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.
Inductive loads (e.g. contactors, relays, etc.) are to be suppressed by means of a suitable circuit.

Wiring example

Note (Wiring diagram)

Contact S21-S22 must be integrated in the safety circuit.

Ordering code

Product type description:
BNS-B20-(1)Z(2)-(3)-(4)

(1)

12 1 NO contact/2 NC contacts

02 2 NC contact

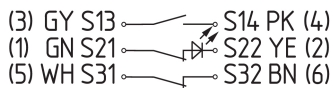
(2)

without without LED switching conditions display

G with LED switching conditions display

(3)

Diagram



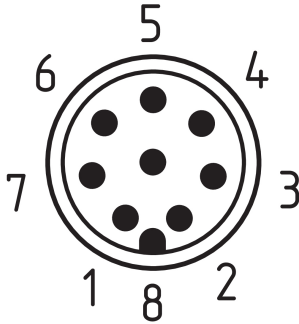
ID: kb-20k06

| 19.3 kB | .cdr |

| 87.8 kB | .jpg | 352.778 x 85.372 mm - 1000 x 242 px - 72 dpi

| 3.9 kB | .png | 74.083 x 17.992 mm - 210 x 51 px - 72 dpi

Contact arrangement

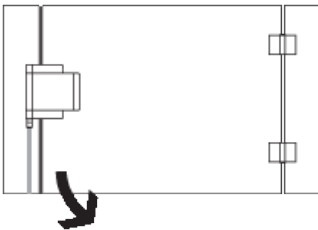


ID: km23-k8b

| 5.3 kB | .png | 73.731 x 79.728 mm - 209 x 226 px - 72 dpi

| 139.8 kB | .jpg | 352.778 x 380.647 mm - 1000 x 1079 px - 72 dpi

Clipart



ID: kb20-c03

| 18.8 kB | .cdr |

| 1.3 kB | .png | 74.083 x 52.564 mm - 210 x 149 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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