



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 9.0	27-27-24-02
eCl@ss number, Version 11.0	27-27-24-02
ETIM number, version 6.0	EC002544
ETIM number, version 7.0	EC002544

Approval - Standards

Certificates	TÜV BG cULus EAC
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General data

Standards	IEC 60947-5-3 BG-GS-ET-14
Coding level according to ISO 14119	Low
Active principle	Magnetic drive
Installation conditions (mechanical)	quasi-flush
Enclosure material	Glass-fibre, reinforced thermoplastic
Gross weight	115 g

General data - Features

Integral System Diagnostics, status	Yes
Number of openers	2
Number of shutters	1
Number of safety contacts	2
Number of cable wires	6

Safety appraisal

Standards	EN ISO 13849-1
Mission Time	20 Year(s)

Safety appraisal - Safety outputs

B10d- 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 IEC 60947-5-3

Ensured switch distance "ON" S_{ao}	0 mm
Ensured switch distance "OFF" S_{ar}	22 mm

Mechanical data - Connection technique

Terminal Connector	Connector M12
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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, minimum	-25 °C
Ambient temperature, maximum	+70 °C
Storage and transport temperature, minimum	-25 °C
Storage and transport temperature, maximum	+70 °C
Resistance to vibrations to EN 60068-2-6	10 ... 55 Hz, amplitude 1 mm
Resistance to shock	30 g / 11 ms
TEMP_AMBIENT_MIN_GEN	-25

Electrical data

Voltage type	DC (direct current)
Switching voltage, maximum	24 VDC
Switching current, maximum	0.01 A
Switching capacity, maximum	0.2 W
Switching frequency, maximum	5 Hz

Status indication

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

Included in delivery	Actuators must be ordered separately.
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Accessory

Recommendation (actuator)	BNS-B20-B01
Recommended safety switchgear	SRB-E-301ST SRB-E-201LC

Notes

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.
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Circuit example

Note (Wiring diagram)	Contact S21-S22 must be integrated in the safety circuit.
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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)	
without	connecting cable bottom
H	connecting cable back
ST	M12 connector bottom
(4)	
L	left hinged door (for bottom pre-wired cable or connector version only)
R	right hinged door (for bottom pre-wired cable or connector version only)

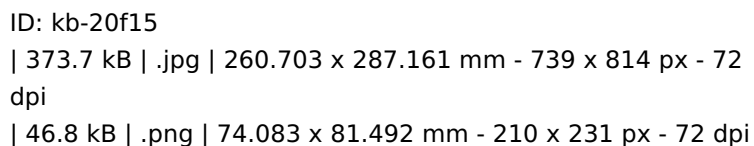
Pictures

Product picture (catalogue individual photo)



ID: kb-20f01
| 896.0 kB | .jpg | 352.425 x 388.408 mm - 999 x 1101 px - 72 dpi
| 58.8 kB | .png | 74.083 x 81.492 mm - 210 x 231 px - 72 dpi

Product picture (catalogue individual photo)



The technical drawing shows two views of the lock cylinder. The top view is a side profile showing dimensions: 43.3 mm height, 8.5 mm base thickness, 40 mm internal width, 108 mm total length, 119.5 mm mounting hole distance, and 17 mm flange thickness. The bottom view is a front elevation showing a rectangular body with a width of 62 mm, a central slot of 40 mm, and a total width of 82 mm. It also indicates a 20 mm gap at the bottom.

ID: 1b-20g01
| 93.9 kB | .cdr |
| 8.7 kB | .png | 74.083 x 51.506 mm - 210 x 146 px - 72 dpi
| 116.1 kB | .jpg | 352.778 x 245.181 mm - 1000 x 695 px -
72 dpi

(3) GY S13 (4) S14 PK (4)
(1) GN S21 (2) S22 YE (2)
(5) WH S31 (6) S32 BN (6)

ID: kb-20k06
| 19.3 kB | .cdr |
| 87.8 kB | .jpg | 352.778 x 85.372 mm - 1000 x 242 px - 72
dpi

ID: kb20-c03
| 18.8 kB | .cdr |
| 1.3 kB | .png | 74.083 x 52.564 mm - 210 x 149 px - 72 dpi