DATASHEET

BNS-B20-12ZG-H-5M

- 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-H-5M
Article number (order number)	101187773
EAN (European Article Number)	4030661336138
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

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	340 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

Mechanical data

Actuating element	Magnet
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

Length of cable	5 m
Termination	Pre-wired cable
Wire cross-section	0.25 mm^2
Material of the Cable mantle	PVC

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
Restistance 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)

without	connecting cable bottom
H	connecting cable back
ST	M12 connector bottom

(4)

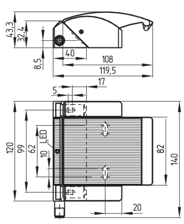
L	left hinged door (for bottom pre-wired cable or connector version only)
R	right hinged door (for bottom pre-wired cable or connector version only)

Pictures

Product picture (catalogue individual photo)

ID: kb-20f17
| 776.9 kB | .jpg | 352.425 x 388.408 mm - 999 x 1101 px - 72 dpi
| 87.3 kB | .png | 74.083 x 81.492 mm - 210 x 231 px - 72 dpi

Dimensional drawing basic component



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