



BNS 16-12ZU-ST1

- Connector M12, 8-pole
- Thermoplastic enclosure
- Suitable for food processing industry
- Concealed mounting possible
- 52 mm x 90 mm x 32 mm
- Long life
- no mechanical wear
- Insensitive to transverse misalignment
- Insensitive to soiling
- Coded reed contact safety switch

Data

Ordering data

Product type description	BNS 16-12ZU-ST1
Article number (order number)	101193994
EAN (European Article Number)	4030661357997
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)	not flush
Housing material	Glass-fibre, reinforced thermoplastic
Gross weight	138 g

General data - Features

Coding	Yes
Prerequisite evaluation unit	Yes
Number of normally closed (NC)	2
Number of normally open (NO)	1

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

Active area	bottom
Actuating element	Magnet
Direction of motion	Head-on to the active surface

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

Assured switching distance "ON" S _{ao}	8 mm
Assured switching distance "OFF" S _{ar}	18 mm

Mechanical data - Connection technique

Connector position	Centre
Termination	Connector M12

Mechanical data - Dimensions

Length of sensor	39 mm
Width of sensor	52 mm
Height of sensor	90 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	100 VAC
Switching voltage, maximum	100 VDC
Switching current, maximum	0.4 A
Switching capacity, maximum	10 W
Switching element	1 NO contact, 2 NC contacts
Switching frequency, maximum	5 Hz

Electrical data - Digital Output

Design of control elements	Miscellaneous, Reed contacts
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Scope of delivery

Scope of delivery

Actuator must be ordered separately.

Accessory

Recommendation (actuator)	BPS 16
Recommended safety switchgear	SRB-E-301ST SRB-E-201LC

Note

Note (General)	Contact symbols shown for the closed condition of the guard device.
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Ordering code

Product type description:
BNS 16-(1)Z(2)-(3)

(1)

11	1 NO contact / 1 NC contact (Only for connector version)
12	1 NO contact/2 NC contacts

(2)

V	Actuating planes front side
R	Actuating planes right-hand side
L	Actuating planes left-hand side
D	Actuating planes cover-side
U	Actuating planes bottom
LR	Actuating planes left-hand side/right-hand side

(3)

ST1	Connector in the middle
ST2	Connector at the right-hand side
ST3	Connector at the left-hand side

Pictures

Product picture (catalogue individual photo)



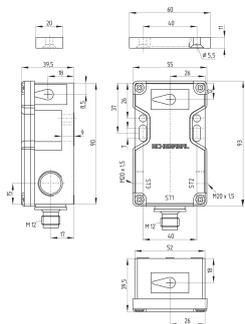
ID: kbns1f15

| 1.2 MB | .jpg | 352.425 x 628.297 mm - 999 x 1781 px - 72 dpi

| 90.7 kB | .png | 74.083 x 131.939 mm - 210 x 374 px - 72 dpi

| 45.9 kB | .jpg | 69.144 x 123.472 mm - 196 x 350 px - 72 dpi

Dimensional drawing basic component



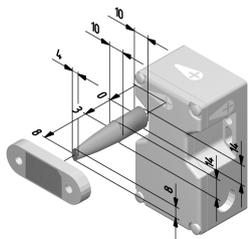
ID: kbns1g07

| 99.1 kB | .ai | 420 x 297 mm - 1190 x 841 px - 72 dpi

| 6.9 kB | .png | 74.083 x 99.131 mm - 210 x 281 px - 72 dpi

| 217.6 kB | .jpg | 352.778 x 473.075 mm - 1000 x 1341 px - 72 dpi

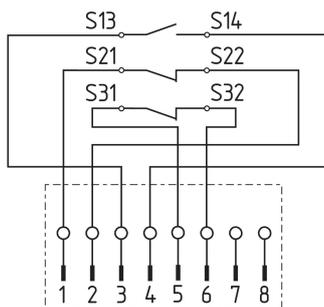
Dimensional drawing miscellaneous



ID: kbns1a05

| 133.9 kB | .jpg | 352.778 x 352.778 mm - 1000 x 1000 px - 72 dpi

Diagram

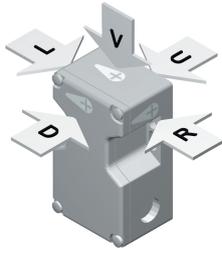


ID: kbns1k03

| 117.8 kB | .jpg | 352.778 x 331.258 mm - 1000 x 939 px - 72 dpi

| 3.9 kB | .png | 74.083 x 69.497 mm - 210 x 197 px - 72 dpi

Operating principle

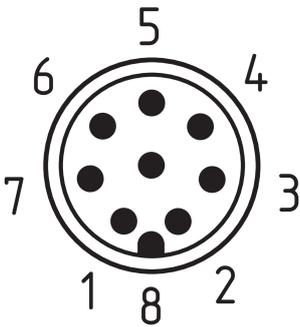


ID: kbns1a04

| 147.3 kB | .jpg | 352.778 x 352.778 mm - 1000 x 1000 px - 72 dpi

| 19.9 kB | .png | 74.083 x 74.083 mm - 210 x 210 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

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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