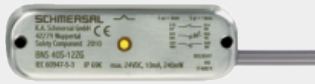


BNS 40S-12ZG



- Long life
- LED version
- no mechanical wear
- Insensitive to soiling
- 88 mm x 27 mm x 14,5 mm
- Stainless steel enclosure
- Concealed mounting possible
- Suitable for food processing industry
- Insensitive to transverse misalignment
- Cable connection suitable for the food industry

Data

Ordering data

	BNS 40S-12ZG
	101215516
EAN (European Article Number)	4030661419268
eCl@ss number, Version 9.0	27-27-24-02

Approval - Standards

TÜV
cULus
ECOLAB
EAC

General data

	BNS 40S
	IEC 60947-5-3
	BG-GS-ET-14
Installation conditions (mechanical)	not flush
Enclosure material	Stainless steel (V4A)
Gross weight	250 g

General data - Features

Coding	Yes
Integral System Diagnostics, status	Yes
Prerequisite evaluation unit	Yes
Number of openers	2

Number of shutters	1
Number of cable wires	6

Safety appraisal

	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

Active area	lateral
Actuating element	Magnet
Ensured switch distance "ON" S_{ao}	8 mm
Ensured switch distance "OFF" S_{ar}	18 mm
Direction of motion	Head-on to the active surface

Mechanical data - Connection technique

Terminal Connector	Cable
Length of cable	1 m
Wire cross-section	0.3 mm ²
Wire cross-section	23 AWG
	LiYY

Mechanical data - Dimensions

Height of sensor	27 mm
Length of sensor	14.5 mm
Width of sensor	88 mm

Ambient conditions

	IP69K
Ambient temperature, minimum	-25 °C
Ambient temperature, maximum	+80 °C
Storage and transport temperature, minimum	-25 °C
Storage and transport temperature, maximum	+80 °C
Resistance to vibrations to EN 60068-2-6	10 ... 55 Hz, amplitude 1 mm
	30 g / 11 ms

Electrical data

Voltage type	DC (direct current)
Switching voltage, maximum	24 VDC

Switching current, maximum	0 A
Switching capacity, maximum	0.2 W
Switching frequency, maximum	5 Hz

Electrical data - Digital Output

Versions	Miscellaneous, Reed contacts
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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

	BPS 40S-2 BPS 40S-1-C BPS 40S-2-C SRB-E-301ST SRB-E-201LC
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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.
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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 40S-12Z(1)-(2)

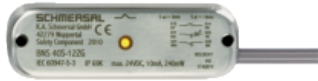
(1)
without without LED switching conditions display
G with LED switching conditions display

(2)
without with countersunk mounting holes Ø 4.2 mm

C concealed threaded holes on the back M4

Pictures

Photo/Product/Catalogue

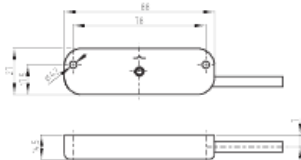


ID: kbns4f04

| 209,9 kB | .jpg | 352.778 x 89.958 mm - 1000 x 255
Pixel - 72 dpi

| 16,3 kB | .png | 74.083 x 19.05 mm - 210 x 54 Pixel -
72 dpi

Dimension/Product/Basic



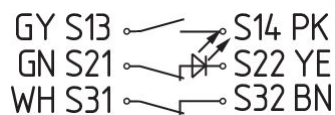
ID: 1bns4g01

| 2,8 kB | .png | 74.083 x 51.506 mm - 210 x 146 Pixel
- 72 dpi

| 22,8 kB | .cdr |

| 57,0 kB | .jpg | 352.778 x 245.181 mm - 1000 x 695
Pixel - 72 dpi

Graphic/Product/Contact

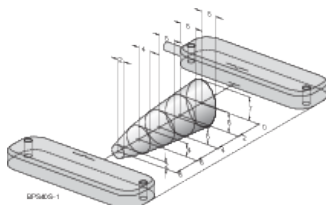


ID: kbns3k32

| 91,7 kB | .jpg | 352.778 x 112.536 mm - 1000 x 319
Pixel - 72 dpi

| 25,4 kB | .cdr |

Diagramm/Product/Curve



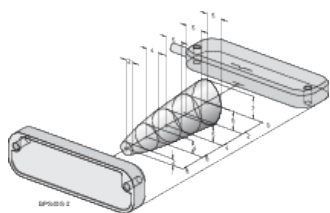
ID: kbns4d03

| 14,3 kB | .png | 74.083 x 46.567 mm - 210 x 132
Pixel - 72 dpi

| 44,3 kB | .cdr |

| 152,2 kB | .jpg | 352.778 x 221.192 mm - 1000 x 627
Pixel - 72 dpi

Diagramm/Product/Curve



ID: kbns4d04

| 44,9 kB | .cdr |

| 14,3 kB | .png | 74.083 x 46.919 mm - 210 x 133

Pixel - 72 dpi

| 149,0 kB | .jpg | 352.778 x 223.661 mm - 1000 x 634

Pixel - 72 dpi

K.A. Schmersal GmbH & Co. KG, Möddinghofe 3, D-42279 Wuppertal

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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