



EX-BNS 40S-12Z

- Explosion protection for ATEX Zones 2 and 22
- Stainless steel enclosure
- 88 mm x 27 mm x 14,5 mm
- Concealed mounting possible
- Insensitive to transverse misalignment
- no mechanical wear
- Suitable for food processing industry
- Cable connection suitable for the food industry

Data

Ordering data

Product type description	EX-BNS 40S-12Z
Article number (order number)	103002167
EAN (European Article Number)	4030661428413
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

Explosion protection

Explosion protection: regulations	EN IEC 60079-0 EN IEC 60079-15 EN 60079-31
Explosion protection zones	2 22
Explosion protection category	3G 3D
Explosion protection designation	II 3G Ex nA nC IIC T6 Gc II 3D Ex tc IIIC T80°C Dc X

Manufacturer declaration

ATEX Zone 2 and 22

General data

Standards	BG-GS-ET-14 EN IEC 60947-5-3
Housing construction form	Block
Installation conditions (mechanical)	not flush
Housing material	Stainless steel (V4A)
Gross weight	200 g

General data - Features

Coding	Yes
Short circuit detection	Yes
Cross-circuit detection	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	lateral
Actuating element	Magnet
Impact energy, maximum	7 J

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

Length of cable	1 m
Termination	Cable
Wire cross-section	0.25 mm ²
Wire cross-section	23 AWG
Material of the Cable mantle	LiYY

Mechanical data - Dimensions

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

Ambient conditions

Degree of protection	IP65 IP67
Ambient temperature	-20 ... +60 °C
Storage and transport temperature, minimum	-25 °C
Storage and transport temperature, maximum	+80 °C
Resistance to vibrations	10 ... 55 Hz, amplitude 1 mm
Resistance to shock	30 g / 11 ms

Electrical data

Required rated short-circuit current	100 A
Switching voltage, maximum	24 VAC

Switching voltage, maximum	24 VDC
Switching current, maximum	0.25 A
Switching capacity, maximum	3 W
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.
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Accessory

Recommendation (actuator)	BPS 40S-2 BPS 40S-1-C BPS 40S-2-C
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.
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Wiring example

Note (Wiring diagram)	Contact S21-S22 must be integrated in the safety circuit.
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Ordering code

Product type description:
EX-BNS40S-12Z(1)-(2)

(1)

without

without LED switching conditions display

G

with LED switching conditions display

(2)

without

With countersunk mounting holes

C

concealed threaded holes on the back

Pictures

Product picture (catalogue individual photo)



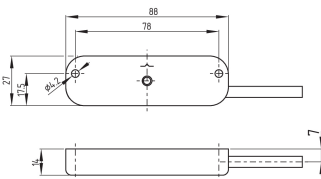
ID: kexbnf13

| 192.8 kB | .jpg | 352.778 x 96.308 mm - 1000 x 273 px - 72 dpi

| 16.7 kB | .png | 74.083 x 20.108 mm - 210 x 57 px - 72 dpi

| 26.7 kB | .jpg | 123.472 x 33.867 mm - 350 x 96 px - 72 dpi

Dimensional drawing basic component



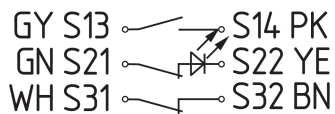
ID: 1bns4g01

| 22.8 kB | .cdr |

| 2.8 kB | .png | 74.083 x 51.506 mm - 210 x 146 px - 72 dpi

| 55.9 kB | .jpg | 352.778 x 192.617 mm - 1000 x 546 px - 72 dpi

Diagram



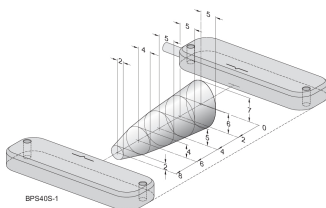
ID: kbns3k32

| 25.4 kB | .cdr |

| 91.7 kB | .jpg | 352.778 x 112.536 mm - 1000 x 319 px - 72 dpi

| 3.9 kB | .png | 74.083 x 23.636 mm - 210 x 67 px - 72 dpi

Characteristic curve



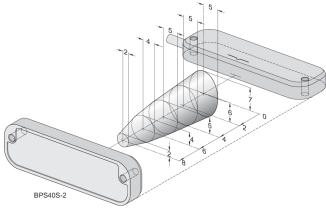
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| 44.3 kB | .cdr |

| 14.3 kB | .png | 74.083 x 46.567 mm - 210 x 132 px - 72 dpi

| 152.2 kB | .jpg | 352.778 x 221.192 mm - 1000 x 627 px - 72 dpi

Characteristic curve



ID: kbns4d04

| 14.3 kB | .png | 74.083 x 46.919 mm - 210 x 133 px - 72 dpi

| 149.0 kB | .jpg | 352.778 x 223.661 mm - 1000 x 634 px - 72 dpi

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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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