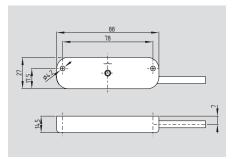
Coded magnet safety sensors

BNS 40S

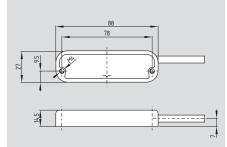




- · Fully encapsulated stainless steel enclosure
- Coded
- · Rectangular design
- · Long life, no mechanical wear
- Protection class IP69K
- · Actuation only possible with BPS 40S-...
- · Insensitive to lateral misalignment
- · Concealed mounting possible
- · Insensitive to soiling
- · Suitable for food-processing industry
- · Food-safe connecting cable

BNS 40S-...-C





· Concealed threaded holes on the rear-side provide for smooth cleaning

Technical data

Standards: IEC 60947-5-3,

BG-GS-ET-14

rectangular Design: Enclosure: Stainless steel V4A

(Material designation to DIN 1.3960)

IP69K to

Protection class: IEC/EN 60529

Connection: cable LiYY, 1 m (suitable for the food industry)

Cable section: 6 x 0.25 mm²

Mode of operation: magnetic BPS 40S-1, BPS 40S-2, Actuating magnet:

BPS 40S-1-C, BPS 40S-2-C, coded 8 mm 18 mm

Switching conditions indicator: LED only for ordering suffix G

Max. switching voltage

max. 100 VAC/DC - without LED: - with LED: max. 24 VDC

Max. switching current

- without LED: max. 250 mA

- with LED: max. 10 mA

Max. switching capacity

without LED: max. 3 W max. 240 mW with LED: Ambient temperature: -25 °C ... +80 °C

Storage and

-25 °C ... +80 °C transport temperature: Max. switching frequency: max. 5 Hz Resistance to shock: 30 g / 11 ms Resistance to vibration: 10 ... 55 Hz, amplitude 1 mm

Classification:

Standards: EN ISO 13849-1 B_{10d} (NC/NO): 25,000,000 for 20% contact load Mission time: 20 years

 $n_{op} = \frac{d_{op} x h_{op} x 3600 s/h}{}$ t cycle

Approvals





* under preparation





* under preparation



Ordering details

BNS 40S-12Z(1)

ם ווסוו	escription
	rithout LED

The actuating magnet must be ordered separately.

Approvals



Ordering details

BNS 40S-12Z(1)-C

No.	Option	Description
1	G	without LED with LED

The actuating magnet must be ordered separately.

Note

Important Note:

Series BNS sensors are only for use in safety applications when used with an electrically compatible safety controller or safety PLC (See section 5 for appropriate safety controllers)

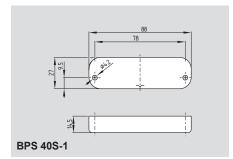
Coded magnet safety sensors

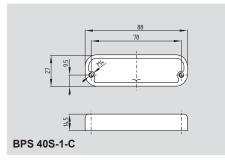
Contact variants

1 NO / 2 NC

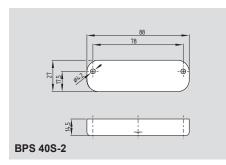
GY S13 - S14 PK GN S21 - S22 YE WH S31 - S32 BN

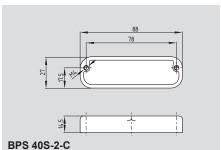
System components





System components





Note

Contact symbols shown for the closed condition of the guard device.

The contact configuration for versions with or without LED is identical.

Contacts S21-S22 must be integrated in the safety circuit.

The LED is illuminated when the guard door is closed.

Ordering details

Fully encapsulated stainless steel enclosure:

Actuator and sensor mounted on same fixing plane Actuator for 90° fixing

BPS 40S-1 BPS 40S-2

Ordering details

Fully encapsulated stainless steel enclosure:

Actuator and sensor mounted on same fixing plane,

rear-side threaded holes Actuator for 90° fixing, BPS 40S-1-C

rear-side threaded holes

BPS 40S-2-C