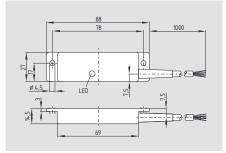
# Safety sensors

## **BNS 33S**





- Stainless steel enclosure
- Coded
- Rectangular design
- · Long life, no mechanical wear
- Protection class IP69k
- Actuation only possible with BPS 33S
- Insensitive to lateral misalignment
- Concealed mounting possible
- Insensitive to soiling
- Suitable for food processing industry
- Cable connection suitable for the food industry

Technical data	
Standards:	IEC 60947-5-3, BG-GS-ET-14
Design:	rectangular
Enclosure:	stainless steel V4A
	(to DIN 1.3960)
Protection class:	IP69K to
	IEC/EN 60529
Connection:	cable LiYY
(suitable fo	or the food industry)
Cable section:	6 x 0.25 mm <sup>2</sup>
Mode of operation:	magnetic
Actuating magnet:	BPS 33S, coded
S <sub>ao</sub> :	8 mm
S <sub>ar</sub> :	18 mm
Switching conditions indicate	
Cuvitabing valtage	ordering suffix G
Switching voltage - without LED:	max. 100 VAC/DC
- with LED:	max. 24 VDC
Switching current	111dx. 24 VDC
- without LED:	max. 250 mA
- with LED:	max. 10 mA
Switching capacity	
- without LED:	max. 3 W
- with LED:	max. 240 mW
Ambient temperature:	−25 °C +80 °C
Storage and transport	
temperature:	−25 °C +80 °C
Switching frequency:	max. 5 Hz
Resistance to shock:	30 g / 11 ms
Resistance to vibration:	10 55Hz,
	amplitude 1 mm
Classification:	EN 100 400 40 4
Standards:	EN ISO 13849-1 25.000.000
B <sub>10d</sub> (NC/NO):	25.000.000 or 20% contact load
Mission time:	20% contact load
	,
$MTTF_{d} = \frac{B_{10d}}{0.1 \text{ x } n_{op}} \qquad n_{op} =$	d <sub>op</sub> x h <sub>op</sub> x 3600 s/h t <sub>cycle</sub>
, op	0,00

#### **Contact variants**

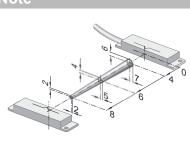
1 NO / 2 NC	
GY S13	

# Approvals

5			
Or	dering	details	
BNS	33S-12Z	D	
No.	Option	Description	
1	G	Without LED With LED	

The actuating magnet must be ordered separately.

CE



Enabling zone

## Note

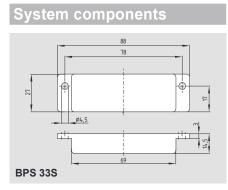
Contact symbols shown for the closed condition of the guard device.

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.

# Safety sensors



Ordering details

Actuating magnet

BPS 33S