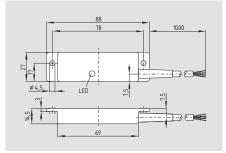
Safety sensors

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 ²
Mode of operation:	magnetic
Actuating magnet:	BPS 33S, coded
S _{ao} :	8 mm
S _{ar} :	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 _{10d} (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 _{op} x h _{op} x 3600 s/h t _{cycle}
, op	0,00

Contact variants

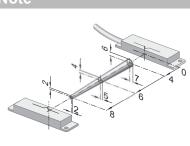
1 NO / 2 NC	
GY S13	

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

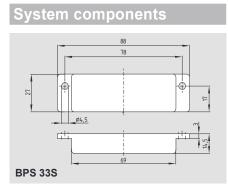
Contact symbols shown for the closed condition of the guard device.

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