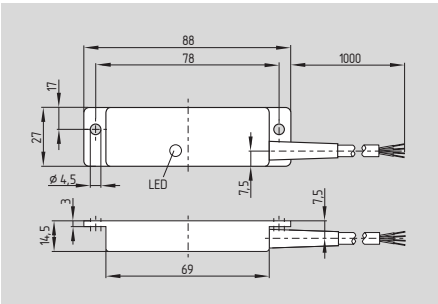


Safety sensor

BNS 33S



- Stainless steel
- Coded
- Rectangular design
- Long life, no mechanical wear
- Protection class IP 69K
- Actuation only possible with BPS 33S
- Insensitive to lateral misalignment
- Concealed mounting possible
- Insensitive to soiling
- 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: IP 69K (to IEC/EN 60529)  
Connection: cable LiYY (suitable for the food industry)  
Cable section: 6 x 0,25 mm<sup>2</sup>  
Mode of operation: magnetic  
Actuating magnet: BPS 33S, coded  
Control category: up to 4 to EN 954-1 in combination with a safety monitoring module  
Classification: up to PDF-M to IEC 60947-5-3 in combination with a safety monitoring module  
S<sub>ao</sub>: 8 mm  
S<sub>ar</sub>: 18 mm  
Switching conditions indicator: LED only for ordering suffix G  
Max. switching voltage  
without LED: max. 100 VAC/DC  
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  
with LED: max. 240 mW  
Ambient temperature: - 25 °C ... + 80 °C  
Storage and transport temperature: - 25 °C ... + 80 °C  
Max. switching frequency: 5 Hz  
Resistance to shock: 30 g / 11 ms  
Resistance to vibration: 10 ... 55 Hz, amplitude 1 mm

Contact variants

1 NO / 2 NC  
GY S13 14S PK  
GN S21 22S YE  
WH S31 32S BN

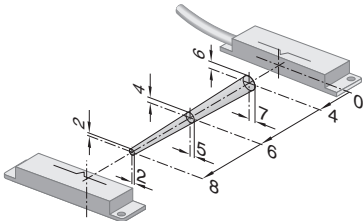
Approvals



Ordering details

BNS 33S-12z①		
No.	Replace	Description
①	G	without LED with LED

Note



Enabling zone

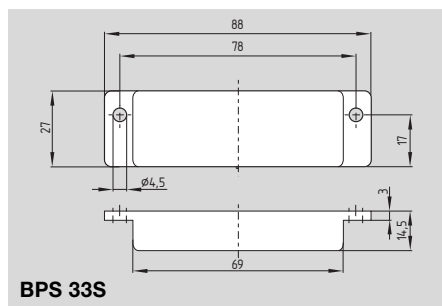
The actuating magnet BPS 33S must be ordered separately.

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 sensor

### System components



### Ordering details

Actuating magnet

**BPS 33S**