



## BNS 40S-12ZG-C 10,0M

- LED version
- especially easy to clean through concealed threaded holes at the rear
- Stainless steel enclosure
- Cable connection suitable for the food industry
- Concealed mounting possible
- 88 mm x 27 mm x 14,5 mm
- Long life
- no mechanical wear
- Insensitive to soiling
- Insensitive to transverse misalignment
- Suitable for food processing industry

## Data

### Ordering data

Product type description	BNS 40S-12ZG-C 10,0M
Article number (order number)	103000645
EAN (European Article Number)	4030661420950
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

### Approvals - Standards

Certificates	TÜV BG cULus ECOLAB
--------------	------------------------------

## General data

Standards	BG-GS-ET-14 EN IEC 60947-5-3
Coding level according to EN ISO 14119	Low
Working principle	Magnetic drive
Installation conditions (mechanical)	not flush
Housing material	Stainless steel (V4A)
Gross weight	660 g

## General data - Features

Concealed, threaded holes on the back	Yes
Integral system diagnostics, general	Yes
Integral system diagnostics, status	Yes
Prerequisite evaluation unit	Yes
Number of normally closed (NC)	2
Number of normally open (NO)	1
Number of cable wires	6

## Safety classification

Standards	EN ISO 13849-1
Mission time	20 Year(s)

## Mechanical data

Actuating element	Magnet
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	10 m
Termination	Cable
Wire cross-section	0.25 mm <sup>2</sup>
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	IP69
Ambient temperature	-25 ... +80 °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**

Switching current, maximum	0.01 A
Switching capacity, maximum	0.2 W
Switching frequency, maximum	5 Hz

### **Electrical data - Digital Output**

Design of control elements	Miscellaneous, Reed contacts
----------------------------	------------------------------

## Scope of delivery

Scope of delivery Actuator must be ordered separately.

## 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.

## Wiring example

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

## Ordering code

Product type description:  
BNS 40S-12Z(1)-(2)

(1)

<b>without</b>	without LED switching conditions display
<b>G</b>	with LED switching conditions display

(2)

<b>without</b>	with countersunk mounting holes Ø 4.2 mm
<b>C</b>	concealed threaded holes on the back M4

## Pictures

## Product picture (catalogue individual photo)



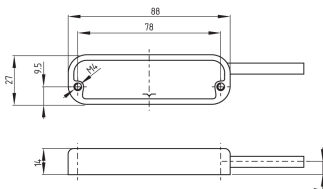
ID: kbns4f02

| 209.5 kB | .jpg | 352.778 x 89.958 mm - 1000 x 255 px - 72 dpi

| 16.0 kB | .png | 74.083 x 19.05 mm - 210 x 54 px - 72 dpi

| 26.1 kB | .jpg | 123.472 x 31.397 mm - 350 x 89 px - 72 dpi

## Dimensional drawing basic component



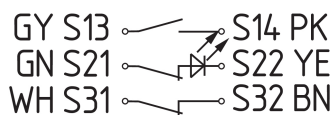
ID: 1bns4g02

| 22.5 kB | .cdr |

| 2.9 kB | .png | 74.083 x 51.506 mm - 210 x 146 px - 72 dpi

| 58.5 kB | .jpg | 352.778 x 204.258 mm - 1000 x 579 px - 72 dpi

## Diagram



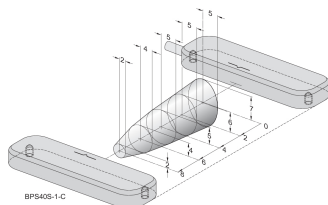
ID: kbns3k32

| 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

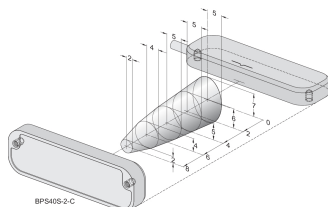


ID: kbns4d01

| 14.0 kB | .png | 74.083 x 46.214 mm - 210 x 131 px - 72 dpi

| 151.1 kB | .jpg | 352.778 x 220.486 mm - 1000 x 625 px - 72 dpi

## Characteristic curve



ID: kbns4d02

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

| 147.9 kB | .jpg | 352.778 x 223.661 mm - 1000 x 634 px - 72 dpi

Schmersal Ltd., Sparrowhawk Close, WR14 1GL Malvern

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.

Generated on: 02/11/2023, 12:03