

## Capacitive level sensor

Limit switch made of stainless steel or brass for liquids and bulk goods

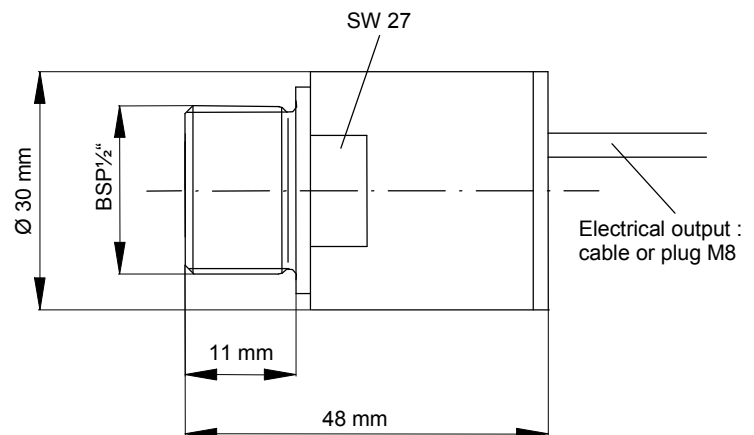
## CPS 02

### Characteristics

- ▶ Easy and quick adjustment by pressing the respective keys (teach in)
- ▶ PNP transistor output
- ▶ Make contact or break contact
- ▶ Functional LED display
- ▶ Thread BSP $\frac{1}{2}$ "
- ▶ Electrical connection:  
Cable or plug M8
- ▶ Housing made of stainless steel or brass
- ▶ Outstanding price-performance ratio
- ▶ Small and compact



### Dimensions

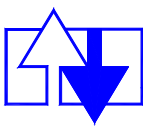


### Application:

Limit level detection of liquids and powdery or fine-granular bulk material, such as cooling lubricant, emulsions, water, plastic granules etc.

### Scope of application:

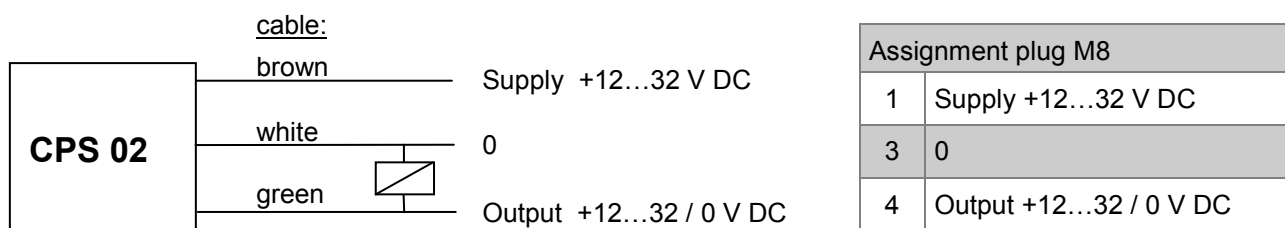
Process and manufacturing technology, environmental technology, water and waste water engineering, plant engineering, mechanical engineering.



## Description

Immersing the CPS 02 into the medium will cause a change in capacitance in the electrical capacitor. The change in capacitance is detected by the electronics and the switching operation is initiated. Adjustment to the corresponding medium is effected by pushing respective keys (Teach in). The CPS 02 will be programmed by the factory if required by the customer.

## Connection scheme

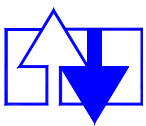


## Technical data

<b>Max. pressure</b>	1 MPa	<b>Fastening screw</b>	BSP 1/2",
<b>Ambient temperature</b>	-25°C up to +70°C	<b>thread</b>	Other designs
<b>Medium temperature</b>	-30°C to a max. of +100°C		on request
<b>Material housing</b>	stainless steel / PVDF brass / PVDF		

## Electrical data

<b>Operating voltage</b>	12...32 V DC	<b>Protection class</b>	IP65
<b>Max. power consumption</b>	40 mA	<b>Switching state display</b>	1 LED
<b>Output</b>	Protective DC PNP (200mA)	<b>Electrical connection</b>	PVC or PUR cable 3 x 0.25 mm <sup>2</sup> or plug M8,
<b>Number of switching points</b>	1		Other designs on request
<b>Function</b>	Make contact or break contact		
Closer (make contact):	closed in the medium		
Opener (break contact):	opened in the medium		



### Type key, order scheme

**CPS 02**

**Process connection**  
 A Screw thread BSP $\frac{1}{2}$ "  
 X other designs on request


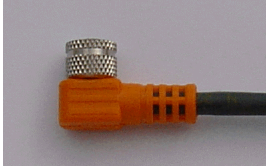
**Electrical connection**  
 2P Cable output 2 m PVC cable 3 x 0.25 mm<sup>2</sup>, standard  
 └─ In case of other cable length, specification is in metres  
 2U Cable output 2 m PUR cable 3 x 0.25 mm<sup>2</sup>, standard  
 └─ In case of other cable length, specification is in metres  
 M8 Plug output M8  
 X Other designs on request

**Switching function**  
 S Make contact (closed in the medium, 12 – 32 V DC)  
 O Break contact (opened in the medium, 0 V DC)

**Housing material**  
 E stainless steel  
 M brass

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### Accessory: Circular connector M8

Design		Item number	Configuration
Coupling M8 with	2 m PVC cable	K8PVC 2	
	5 m PVC cable	K8PVC 5	
	2 m PUR cable	K8PUR 2	
	5 m PUR cable	K8PUR 5	
Angle coupling M8 with	2 m PVC cable	W8PVC 2	
	5 m PVC cable	W8PVC 5	
	2 m PUR cable	W8PUR 2	
	5 m PUR cable	W8PUR 5	

Colour identification	
1	brown
3	blue
4	black

### Distributore esclusivo per l'Italia:

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