

Level limit switch CPS 04 of stainless steel

By exchanging or shortening the sensing probe, the level limits can be detected variably

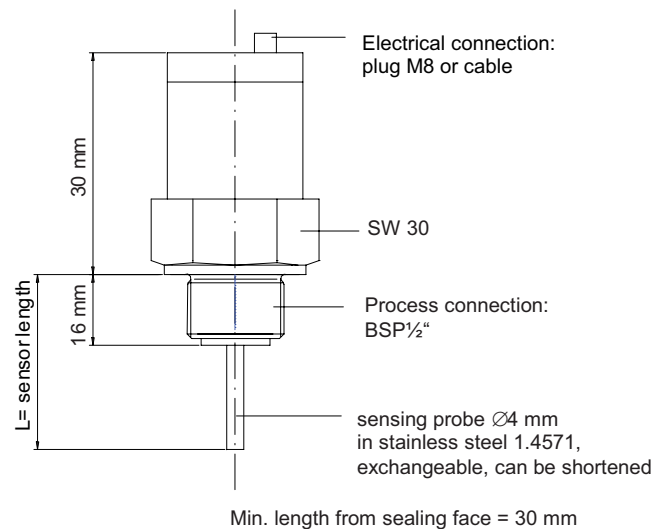
CPS 04

Characteristics

- ▶ Variable detection of the level limits
 - by exchanging the sensing probe or
 - by shortening the sensing probe
- ▶ Easy and quick adjustment by pressing the respective keys (teach in) or fixed setting by programming in the factory
- ▶ PNP transistor output
- ▶ 1 switch point: make contact or break contact
- ▶ Functional LED display
- ▶ Thread BSP $\frac{1}{2}$ "
- ▶ Cable or plug M8
- ▶ Material: stainless steel / PVDF



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

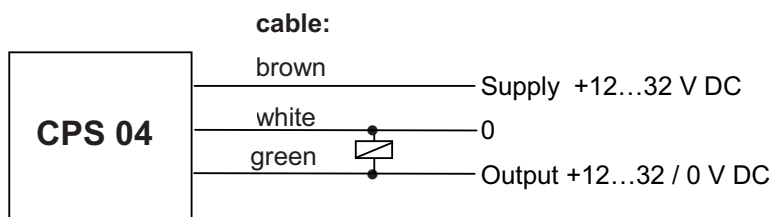
Immersing the CPS 04 into the medium will cause a change in capacitance in the electrical capacitor. The change in capacitance is detected by the electronics and the switching operation is initiated.

By exchanging or shortening the sensing probe, the level can be established at various heights.

Adjustment to the corresponding medium is effected by pushing respective keys (Teach in).

The CPS 04 will be programmed by the factory if required by the customer.

Connection scheme



Assignment plug M8	
1	Supply +12...32 V DC
3	0
4	Output +12...32 / 0 V DC

Technical Data

Max. pressure	1,6 MPa	Sensing probe:	stainless steel 1.4571, Ø 4mm
Ambient temperature	-30°C up to +70°C		exchangeable,
Medium temperature	-30°C up to +100°C		can be shortened
Material housing	stainless steel / PVDF	min. Sensor length L:	30 mm
Fastening screw thread	BSP½", other designs on request	from sealing face	
		max. Sensor length L:	1,5 m; > 1,5 m on request
		from sealing face	

Electrical data

Operating voltage	12...32 V DC	Protection class	IP65
Max. power consumption	40 mA	Switching state display	1 LED
Output	Protective PNP (200 mA)	Electrical connection	PVC or PUR cable 3 x 0.25 mm² or plug M8,
Number of switching points	1		Other designs on request
Function	Make contact or break contact		
	Closer (make contact): closed in the medium		
	Opener (break contact): opened in the medium		

Type key, order scheme

CPS 04

Process connection
 A Screw thread BSP 1/2"
 X other designs on request

Electrical connection
 2P Cable output 2 m PVC cable 3 x 0.25 mm², standard
 L In case of other cable length, specification is in metres
 2U Cable output 2 m PUR cable 3 x 0.25 mm², standard
 L 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)

Sensor Length L
 Dimensions in mm (length from sealing face of process connection,
 L min.=30 mm, L max.=1500 mm)

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Accessory: Circular connector M8

Type		Item number	Design
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

Edition: 10/2015. Technical specifications are for information only and may change without notice.