

IMB

Industrielle Messtechnik GmbH & Co. KG

Capacitive level sensor made of plastic

Level limit switch made of plastic for liquids and bulk goods

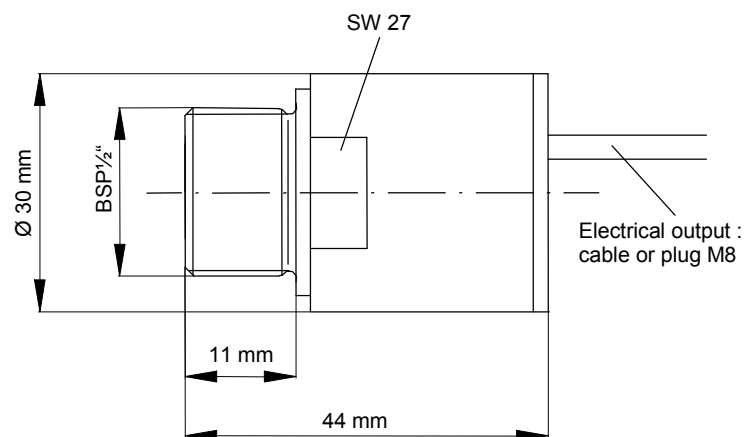
CPS 01



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 PVC or PVDF
- ▶ Outstanding price-performance ratio
- ▶ Small and compact

Dimensions



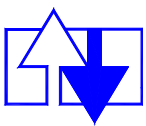
Application:

Limit level detection of liquids and powdery or fine-granular bulk material, such as aggressive medium, acids and bases, water, aqueous solutions, liquids for cleaning, plastic granules etc.

Scope of application:

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

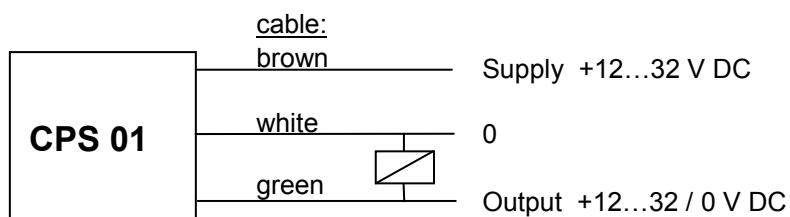
> preferentially for mounting in plastic container



Description

Immersing the CPS 01 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 01 will be programmed by the factory if required by the customer.

Connection scheme



Assignment plug M8

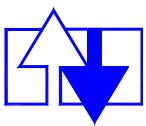
1	Supply +12...32 V DC
3	0
4	Output +12...32 / 0 V DC

Technical data

Max. pressure	0,4 MPa	Fastening screw	BSP 1/2",
Ambient temperature	-25°C up to +70°C	thread	Other designs
Medium temperature:			on request
Housing made of PVC:	-10°C to a max. of +60°C		
Housing made of PVDF:	-30°C to a max. of +100°C		

Electrical data

Operating voltage	12...32 V DC	Protection class	IP65
Max. power consumption	40 mA	Switching state display	1 LED
Output	Protective DC PNP (200mA)	Electrical connection	PVC or PUR cable 3 x 0.25 mm ² 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 01

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


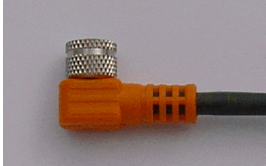
Electrical connection
 2P Cable output 2 m PVC cable 3 x 0.25 mm², standard
 └─ In case of other cable length, specification is in metres
 2U Cable output 2 m PUR cable 3 x 0.25 mm², standard
 └─ In case of other cable length, specification is in metres
 M8 Plug output M8
 X Other designs on request

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
 A PVC
 B PVDF

CPS 01 [] [] [] []

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:

TRAFAG ITALIA S.r.l.
 c/o Tecnocity Altomilanese
 Via Cremona 1
 20025 Legnano (MI)

Tel: 0331 592 397
 Fax: 0331 599 815
 www.trafagititalia.com
 info@trafagititalia.com

