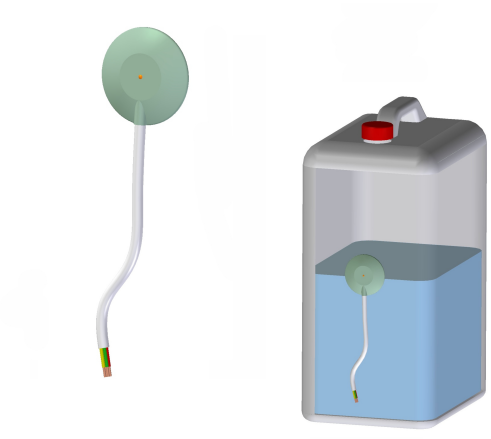
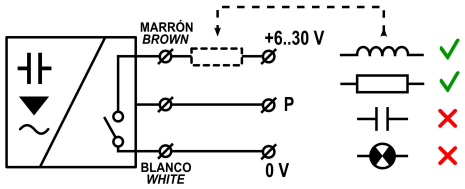
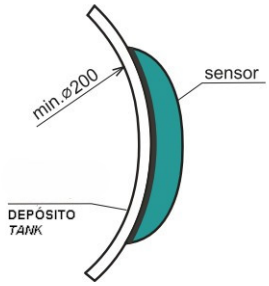
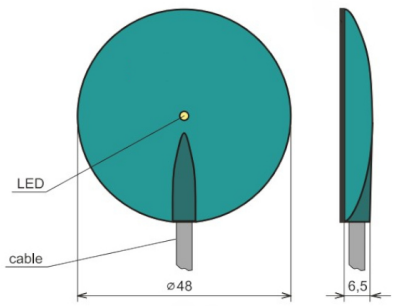
SCEF

CAPACITIVE SENSOR WITH DETECTION FROM THE OUTSIDE



Application	The capacitive sensor SCET detects the presence of liquids (whether or not conductive) through plastic or glass. Specially adapted for a comfortable installation in tubes and pipes.
Construction data	
Body material	Polyurethane
Process connection	By double-sided adhesive tape.
Electrical connection	Using PUR cable of 3x0.14 mm²
Cable length	2 or 5 meters
Technical data	
Power supply	6 .. 30 VDC, 0,6 mA (OFF)
Output	Current switch, 2 wires
Switching current	3,3 .. 40 mA
Wall thickness (max.)	Conductive liquids: 8 mm Non-conductive liquids: 3 mm
Operating temperature	-10 .. +60 ºC
Protection	IP67
Dimensions	Ø48 x 6,5 mm
Weight	45 gr, approx., cable included.
Adjustment mode	Using the green cable (P)
Status Indication	Through an LED on the front
Electrical wiring	
	
Electrical protection	The sensor output is protected against short circuits. The sensor evaluates capacitive or low resistance loads (light bulbs) as a short circuit. In the case of electromagnetic interference, conductors in parallel with power lines or distances greater than 30 meters, we recommend the use of shielded cable.
Normative	Electromagnetic compatibility in accordance with standards EN 55022/B, EN 61326-1, EN 61000-4-2, -3, -4 and -6.
Installation	
Placement in the tank	The sensor is adhered to the wall of the tank by means of an adhesive layer, which incorporates a protective paper. Before installing, remove the paper and press lightly on the wall of the tank. Before the first use, keep the sensor at the same temperature as the tank wall, approximately for 30 minutes.

Curved surfaces	 The sensor can adapt to curved surfaces that have a minimum radius of 200 mm.
Adjustment	
Adjustment mode	The adjustment is made by the green programming cable (P), being able to adjust the maximum and minimum work points as well as the work modes: SO (opens when not detected) and SC (closes when not detected). The green cable P is used only during programming. During the normal working mode it must be disconnected.
Mode SO	With the liquid below the sensor, connect the cable P with the white cable (0 V) for approximately 2 seconds. With the liquid at the height of the sensor, connect the cable P with the brown cable (+) for approximately 2 seconds.
Mode SC	El procediment d´ajust és el contrari a la manera SO.
Failure alarm	
Wrong setting	If the sensor does not recognize the maximum and minimum level limits or if an error occurs during the adjustment, the control LED is activated intermittently with a cadence of approximately 0.2 seconds. In this case, repeat the adjustment again.
Output failure	In the case of a short circuit or an increase in the maximum permitted switching current, the control LED is activated intermittently at a rate of approximately 0.8 seconds. In this case, check the conditions of the electrical connection.
Dimensions	
	

COMPOSITION OF THE REFERENCE

SCEF ☐

Cable	2 m	02
	5 m	05