





## SCM 30P

### CAPACITIVE SENSORS M 30





Application	Capacitive sensors can detect objects of very diverse and dimensionally unstable structure, whether liquid or solid bulk products. The conditions of the product and the characteristics of the tank that contains it will allow the detection to be by direct contact or through the wall of the container in the case that it is made of plastic material.
Sectors	Plastic industry, chemistry, wood, glass, ceramics, photovoltaic installations, farms, drinks, automatic storage, washing, etc.
General characteristics	<ul style="list-style-type: none"> <li>Supply voltage: AC or DC</li> <li>High immunity to electrical noise</li> <li>Models flush and not flush</li> <li>Adjustable sensitivity</li> </ul>

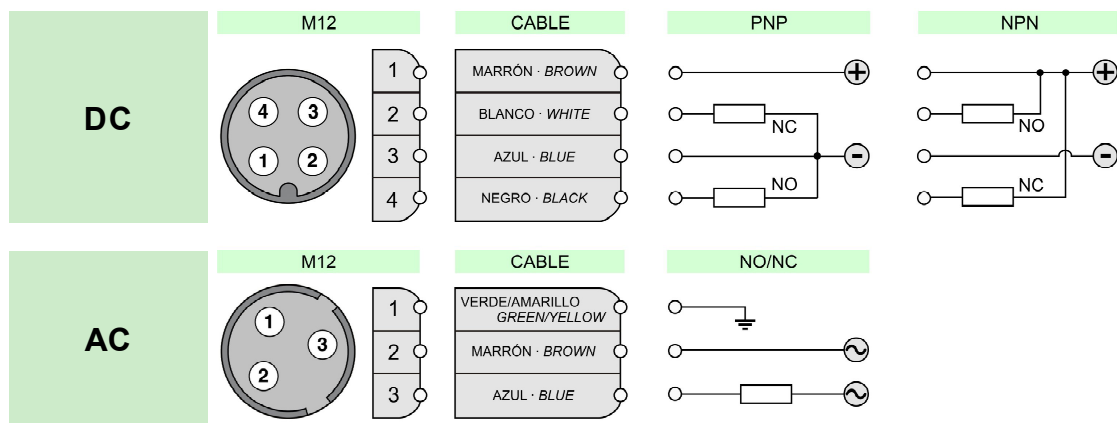
#### PRODUCT SELECTION

VOLTAGE	INSTALLATION	DISTANCE	CONNECTION	NPN / NO+NC	PNP / NO+NC	Selectable NO/NC
10..40 VDC	Flush	 2..16 mm	Cable 2 m	SCM 30P BN 1A	SCM 30P BP 1A	-
			Connector M12	SCM 30P BN 1E	SCM 30P BP 1E	-
	No flush	 4..25 mm	Cable 2 m	SCM 30P BN 2A	SCM 30P BP 2A	-
			Connector M12	SCM 30P BN2E	SCM 30P BP 2E	-
20..250 VAC	Flush	 2..16mm	Cable 2 m	-	-	SCM 30P 00 1A
			Connector M12	-	-	SCM 30P 00 1E
	No flush	 4..25 mm	Cable 2 m	-	-	SCM 30P 00 2A
			Connector M12	-	-	SCM 30P 00 2E

#### TECHNICAL DATA

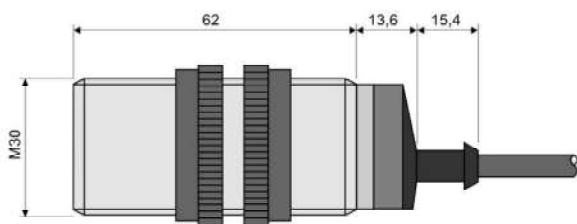
		
Model	<b>SCM 30P ?? 1?</b>	<b>SCM 30P ?? 2?</b>
Nominal reach	16 mm	25 mm
Type	Flush	No flush
Differential travel	≤ 20%	
Repetitivity	5%	
Rated voltage	[DC]: 10..40 VDC // [AC]: 20..250 VCA	
Maximum ripple factor	≤ 10%	
Consumption (without load)	≤ 10 mA	
Consumption (with load)	[DC]: ≤ 200 mA // [AC]: ≤ 500 mA, 2,5 A MAX 20 ms	
Leakage current	≤ 10 µA	
Tension fall	[DC]: 2,5 VDC MAX. @ IL = 200 mA // [AC]: 10 VAC @ IL ≥ 20 mA	
Type of output	[DC]: NPN or PNP, NO or NC // [AC]: NO or NC	
Switching frequency	[DC]: 50 Hz // [AC]: 10 Hz	
Start-up delay	≤ 100 ms	
Supply voltage protection	Polarity inversion. Overvoltage impulses.	
Electrical output protection	[DC]: Automatic reset by short circuit. Overvoltage.	
Sensitivity adjustment	Yes	
Storage temperature	-40 .. +85°C	
Operating temperature	-25 .. +80°C (without freezing)	
Thermal drift	≤ 20%	
EMC compatibility	According to the directive CE 2004/108/EC. Requeriments according to EN 60947-5-2.	
Protection class	IP67 (EN 60529) NEMA 1,3,4,6,13	
LED indication	Output state ON: Yellow	
Body material	Thermoplastic polyester	
Active head material	Polyester	
Weight	[Connector]: 30 g // [Cable]: 110 g	

## ELECTRICAL CONNECTION

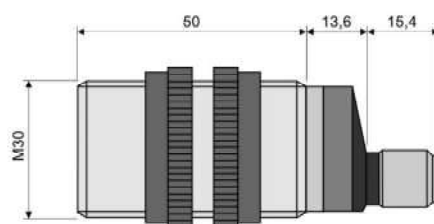


## DIMENSIONS

Output by cable

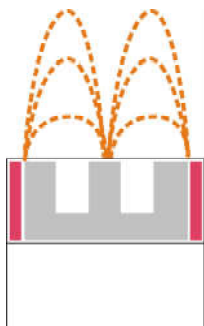


Output by conector



## TYPE OF DETECTION

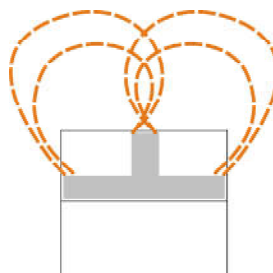
Shielded sensor (flush)



They are armored around the sensitive core with a metallic shield which limits the magnetic field of the sensor.

- Can be mounted flush with the installation site.
- Specially indicated for positioning.
- Shorter detection distances.

Sensor not shielded (not shielded)



They have not any extra shield offering a bigger detection area.

- Cannot be mounted flush with the installation site.
- Indicated for detection of presence.
- Larger detection distances.

## COMPOSITION OF THE REFERENCE

SCM 30P ☐ ☐ ☐ ☐

Model	Capacitive sensor	SCM
	Main diameter (mm)	30
	Body material	P
Output	DC: NO+NC	B
	AC: NO/NC selectable	0
Working mode	PNP logic (DC)	P
	NPN logic (DC)	N
	SCR output (AC)	0
Detection	Flush 2..16mm	1
	No flush 4..25mm	2
Electrical connection	Connector M12	E
	Cable (2 m)	A

