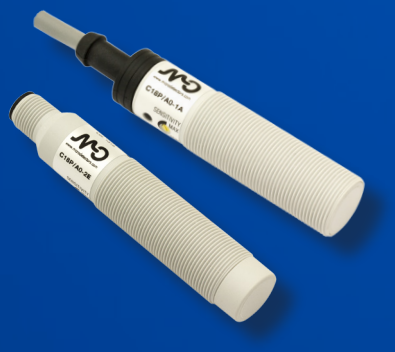
C18 series

M18 cylindrical capacitive sensors

features

- **DC or AC supply voltage**
- **High noise immunity**
- **Shielded and unshielded models**
- **Adjustable sensitivity**
- **Plastic housing**



web contents

- **Application notes**
- **Photos**
- **Catalogue / Manuals**

available models

C18 P / B P - 1 E

series	C18	M18 capacitive sensor
housing	P	Plastic housing
output state	B	NO + NC complementary output
	A	NO output
	C	NC output
output logic	P	PNP logic
	N	NPN logic
	0	SCR output
distance	1	3...8 mm shielded models
	2	3...12 mm unshielded models
connect.	E	M12 plug exit
	A	2 m cable exit

MEDITECNA
Instrumentación | Proyectos | Servicios

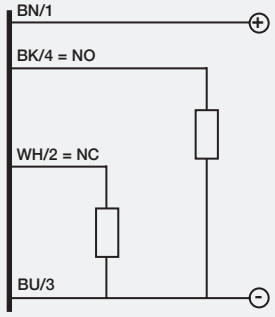
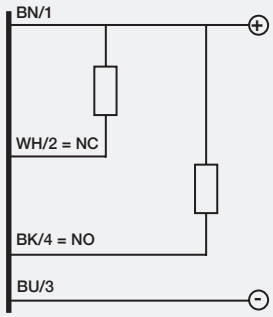
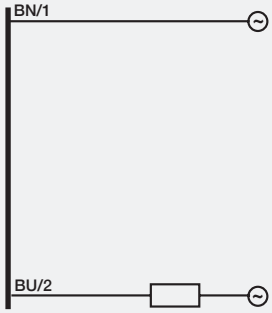
available models

supply	installation	connections	distance	NPN NO + NC	PNP NO + NC	NO	NC
10...40 Vcc	shielded	cable 2 m	3...8 mm	C18P/BN-1A	C18P/BP-1A	-	-
		M12		C18P/BN-1E	C18P/BP-1E	-	-
	unshielded	cable 2 m	3...12 mm	C18P/BN-2A	C18P/BP-2A	-	-
		M12		C18P/BN-2E	C18P/BP-2E	-	-
20...250 Vac	shielded	cable 2 m	3...8 mm	-	-	C18P/A0-1A	C18P/C0-1A
		M12		-	-	C18P/A0-1E	C18P/C0-1E
	unshielded	cable 2 m	3...12 mm	-	-	C18P/A0-2A	C18P/C0-2A
		M12		-	-	C18P/A0-2E	C18P/C0-2E

technical specification

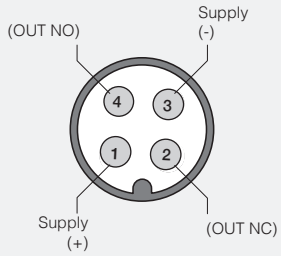
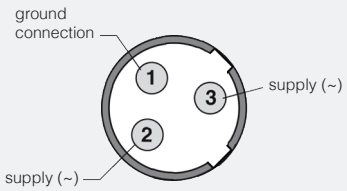
	C18P/**-1*	C18P/**-2*
		
nominal sensing distance	8 mm	12 mm
hysteresis	≤ 20%	
repeatibility	5%	
operating voltage	10 ... 40 Vcc oppure 20 ... 250 Vac	
max ripple content	≤ 10 %	
no-Load supply current	≤ 12 mA	
load current	≤ 200 mA (dc models), ≤ 500 mA; max. 2,5 A max. 20 ms (ca models)	
leakage current	≤ 100 µA	
output voltage drop Ud	2.5 Vmax @ IL= 200 mA (dc models), ≤ 10 VAC @ IL ≥ 20 mA (ca models)	
output type	NPN or PNP - NO + NC; SCR - NO or NC	
switching frequency	50 Hz (dc models); 10 Hz (ca models)	
power on delay	≤ 200 ms	
power supply protections	polarity reversal, impulsive overvoltage	
output protection	autoreset short circuit, overvoltage (dc models)	
sensitivity adjustment	●	
storage temperature	-40 ... +85° C	
operating temperature range	-25 ... +80° C (without freeze) (ca models); -35 ... +85° C (without freeze) (dc models)	
temperature drift	≤ 20 %	
EMC	in conformity with the EMC Directive, according to IEC 60947-5-2	
protection degree	IP67 (IEC 60529) NEMA 1,3,4,6,13 (ca models); IP67 - IP68/60 min - IP69K (IEC 60529; 60943-1) NEMA 1,2,4,4x,5,6,6p,12 (models dc)	
LEDs	yellow (output status) (ca-models), yellow (object detected), green (supply/stability) (dc models)	
housing material	thermoplastic polyester	
active head material	polyester	
weight	65 g M12 connector / 150 g cable	
tightening torque	2.6 Nm	

electrical diagrams of connections

PNP – NO + NC	NPN – NO + NC	AC - NO + NC
		

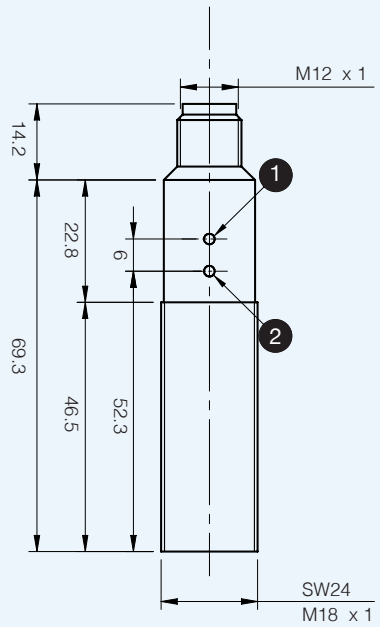
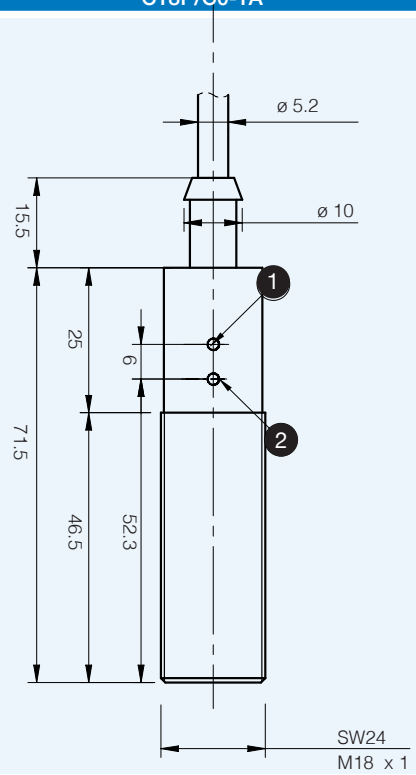
BN	brown
BU	blue
BK	black
WH	white

plug

M12 C18P/ BP-*E C18P/ BN-*E	M12 C18P/ *0-*E
	

For models with AC power supply using the connection cable series CD12M/AC

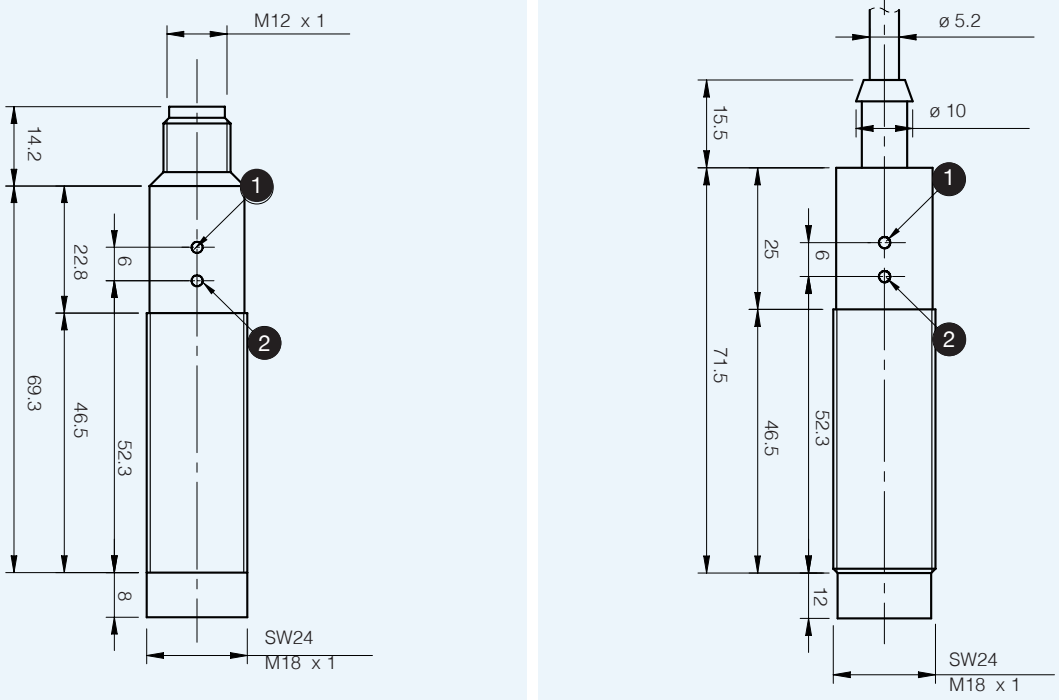
dimensions (mm)

C18P/A0-1E C18P/C0-1E	C18P/A0-1A C18P/C0-1A
	

1 LED 2 TRIMMER

dimensions (mm)

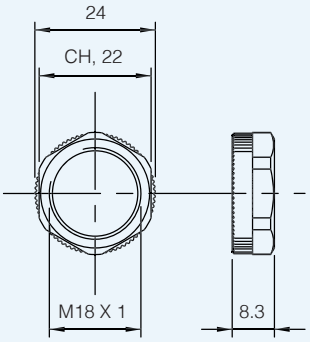
C18P/A0-*E C18P/C0-*E	C18P/A0-*A C18P/C0-*A



1 LED 2 TRIMMER

dimensions (mm)

accessories included in all models



plastic
nut (2 x)