C30 series

M30 cylindrical
capacitive sensors

features

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



web contents

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

code description

C30 P / B P - 1 E

series	C30	M30 capacitive sensor
housing	P	Plastic housing
	M	Metal housing
output state	B	NO + NC complementary output
	0	NO / NC selectable output
output logic	P	PNP logic
	N	NPN logic
	0	SCR output
distance	1	2...16 mm shielded models
	2	4...25 mm unshielded models
connect.	E	M12 plug exit
	A	2 m cable exit

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Instrumentación | Proyectos | Servicios

available models

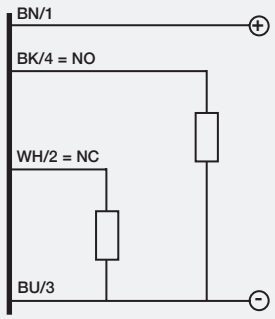
supply	housing	installation	distance (mm)	connections	NPN NO + NC	PNP NO + NC	SCR NO + NC
10...40 Vcc	stainless steel	shielded	2...16	2 m plug	C30M/BN-1A	C30M/BP-1A	-
		unshielded	4...25		C30M/BN-2A	C30M/BP-2A	-
		shielded	2...16	M12	C30M/BN-1E	C30M/BP-1E	-
		unshielded	4...25		C30M/BN-2E	C30M/BP-2E	-
	plastic	shielded	2...16	2 m plug	C30P/BN-1A	C30P/BP-1A	-
		unshielded	4...25		C30P/BN-2A	C30P/BP-2A	-
		shielded	2...16	M12	C30P/BN-1E	C30P/BP-1E	-
		unshielded	4...25		C30P/BN-2E	C30P/BP-2E	-
20...250 Vac	stainless steel	shielded	2...16	2 m plug	-	-	C30M/00-1A
		unshielded	4...25		-	-	C30M/00-2A
		shielded	2...16	M12	-	-	C30M/00-1E
		unshielded	4...25		-	-	C30M/00-2E
	plastic	shielded	2...16	2 m plug	-	-	C30P/00-1A
		unshielded	4...25		-	-	C30P/00-2A
		shielded	2...16	M12	-	-	C30P/00-1E
		unshielded	4...25		-	-	C30P/00-2E

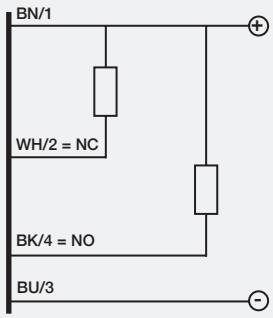
technical specification

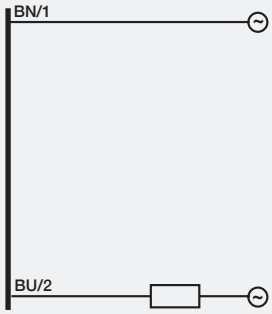
	C30*/**-1*	C30*/**-2*
		
nominal sensing distance Sn	16 mm	25 mm
hysteresis	≤ 20%	
repeatibility	5%	
operating voltage	10 ... 40 Vcc oppure 20 ... 250 Vac	
max ripple content	≤ 10 %	
no-Load supply current	≤ 12 mA	
load current	≤ 200 mA (dc models), ≤ 500 mA; max. 2.5 A max. 20 ms (ca models)	
leakage 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 / 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)	
temperature drift	≤ 20 %	
EMC	in conformity with the EMC Directive, according to EN 60947-5-2	
protection degree	IP67 (EN 60529) NEMA 1,3,4,6,13	
LEDs	yellow (output status LOn/DOn)	
housing material	thermoplastic polyester	
active head material	polyester	
weight	plastic version:100 g connector M12 / 180 g cable metallic version: 150 g connector / 230 g cable+	
tightening torque	50 Nm	

electrical diagrams of connections

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



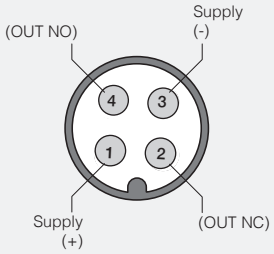


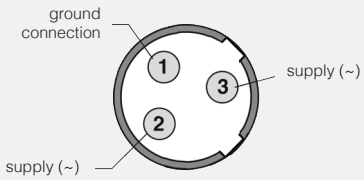


BN	brown
BU	blue
BK	black
WH	white

plug

M12 C30*/BP-*E C30*/BN-*E	M12 C30*/00-*E

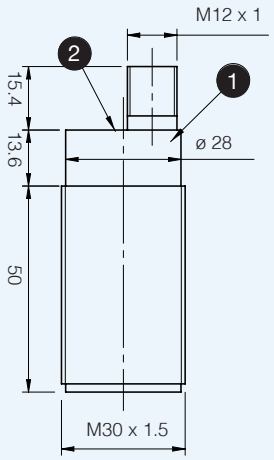


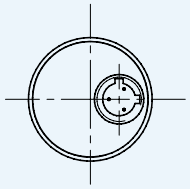


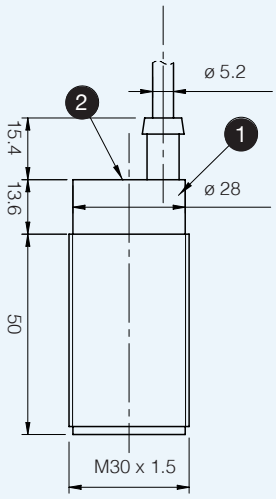
For models with AC power supply using the connection cable series CD12M / AC

dimensions (mm)

C30P/00-1E C30M/**-1E	C30P/00-1A C30M/**-1A



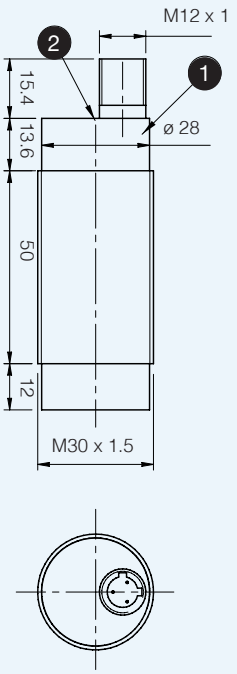


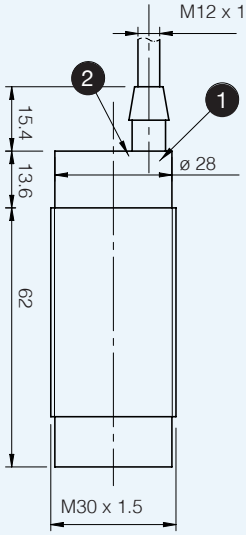


1 LED 2 TRIMMER

dimensions (mm)

C30P/00-2E C30M/**-2E	C30P/00-2A C30M/**-2A

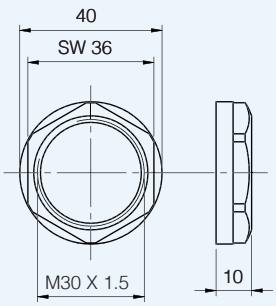




1 LED 2 TRIMMER

dimensions (mm)

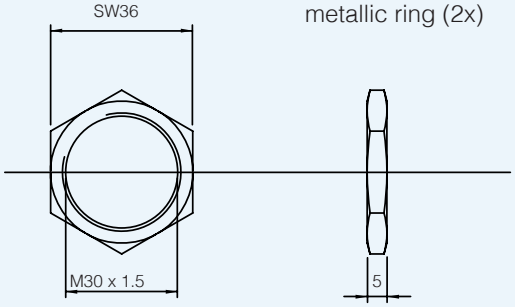
accessories included in all plastic models



plastic ring (2x)

dimensions (mm)

accessories included in all metal models



metallic ring (2x)