CT series

M30 cylindrical
capacitive sensors

features

- **Sensitivity adjustment with trimmer**
- **Metal housing**
- **IP65 protection degree**
- **Complete protection against electrical damages**
- **Axial cable exit or M12 plug cable exit**

web contents

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

code description

CT 1 / A N - 1 A

series	CT	Capacitive proximity sensor
housing	1	Standard
output state	A	NO output state
	C	NC output state
output logic	N	NPN logic output
	P	PNP logic output
distance	1	Standard shielded 15 mm
	2	Standard unshielded 20 mm
connect.	A	Axial cable exit
	H	M12 plug cable exit

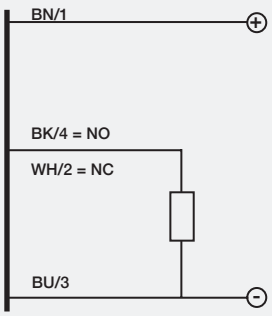
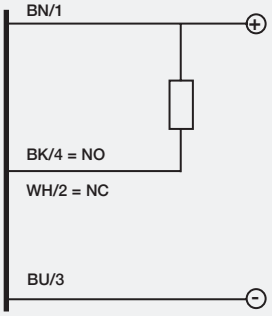
available models

diameter	installation	distance (mm)	plug	NPN/NO	NPN/NC	PNP/NO	PNP/NC
M30	shielded	15	cable	CT1/AN-1A	CT1/CN-1A	CT1/AP-1A	CT1/CP-1A
			M12	CT1/AN-1H	CT1/CN-1H	CT1/AP-1H	CT1/CP-1H
	unshielded	20	cable	CT1/AN-2A	CT1/CN-2A	CT1/AP-2A	CT1/CP-2A
			M12	CT1/AN-2H	CT1/CN-2H	CT1/AP-2H	CT1/CP-2H

technical specification

	CT1/0*-1*	CT2/0*-1*
nominal sensing distance Sn	2...15 mm	2...20 mm
operating distance	2...12 mm	2...16 mm
hysteresis	2...20 %	
repeatibility	10 %	
supply voltage	10...30 Vdc	
ripple	≤ 10 %	
no-load supply current	8 mA	
load current	≤ 200 mA	
leakage current	≤ 10 mA	
voltage drop	0.75/1.8 V max. IL=10/200 mA	
output type	NPN or PNP - NO or NC - open collector	
switching frequency	100 Hz	
time delay before availibility	100 ms	
power supply protections	impulsive polarity reversal, transient	
output protection	short circuit (autoreset)	
temperature range	-25°...+70°C	
temperature drift	20% Sr	
EMC	in conformity with the EMC Directive according to IEC 60947-5-2	
shocks and vibrations	IEC 60947-5-2	
protection degree	IP 65	
LEDs	green (supply), red (output energized)	
housing material	nichel plated brass	
active head material	PBT	
weight	185 g M12 connector 260 g cable	
tightening torque	50 Nm	

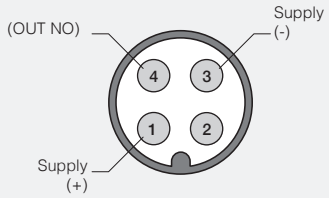
electrical diagrams of connections

PNP	NPN
	

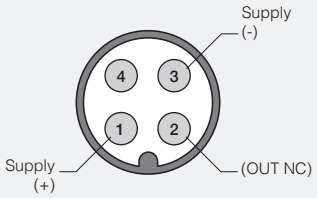
BN	brown
BU	blue
BK	black
WH	white

plug

M12 - NO

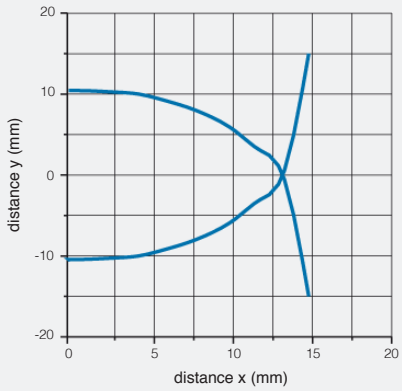


M12 - NC

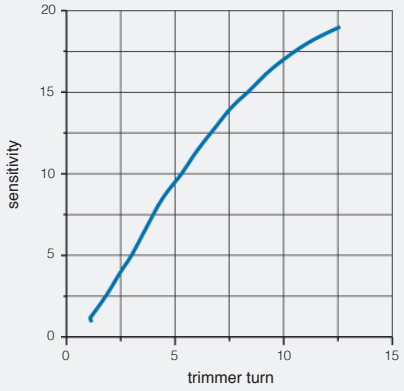


response diagram

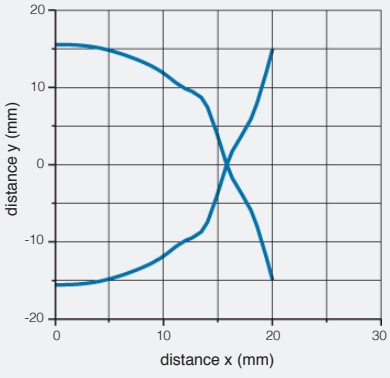
CT1/**-1* detection area



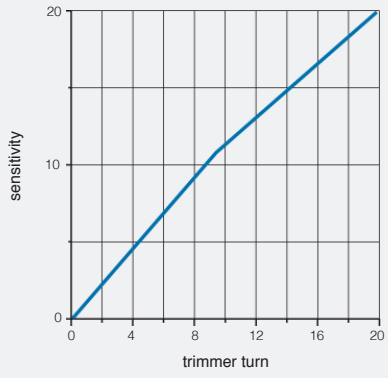
CT1/**-1* sensitivity adjustment



CT1/**-2* detection area

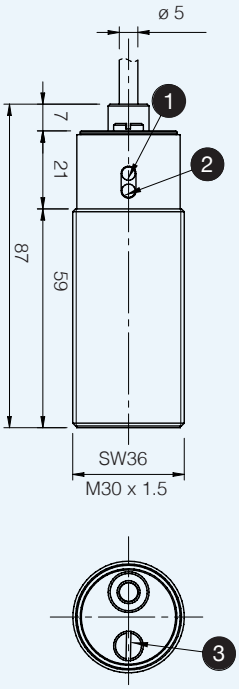


CT1/**-2* sensitivity adjustment

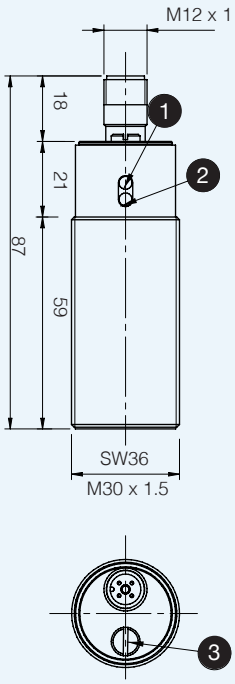


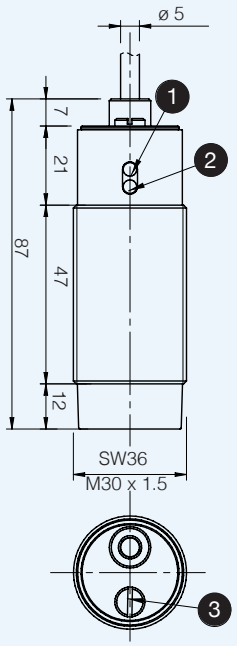
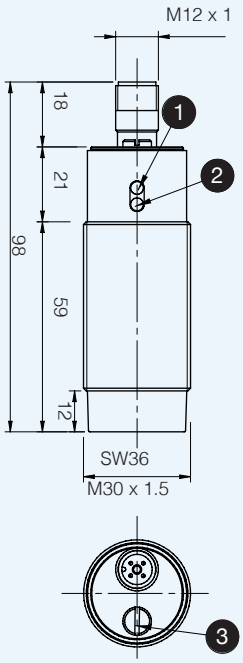
dimensions (mm)

CT1/**-1A



CT1/**-1H

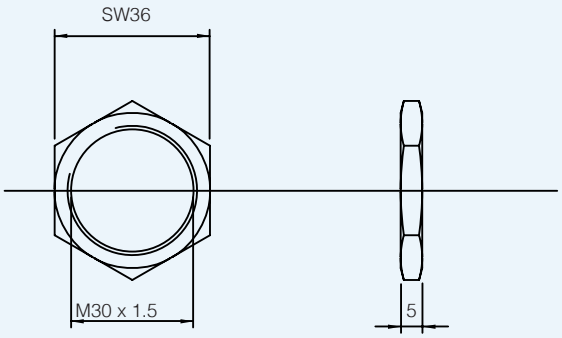


CT1/**-2A	CT1/**-2H
	

1 red LED (supply) 2 yellow LED (active NO output) 3 TRIMMER

dimensions (mm)

accessories included in all models



metallic
nut (2 x)