

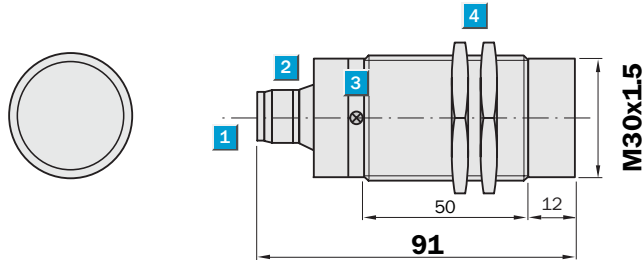
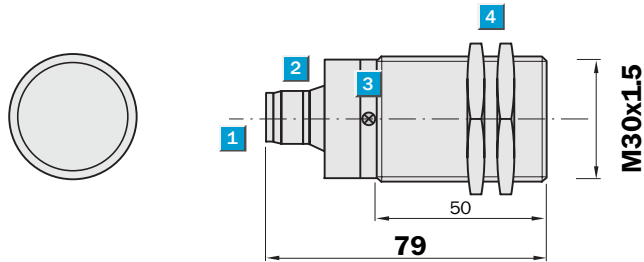
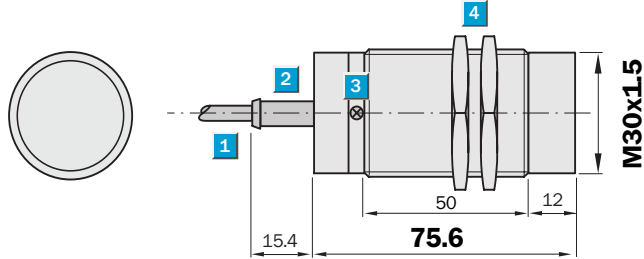
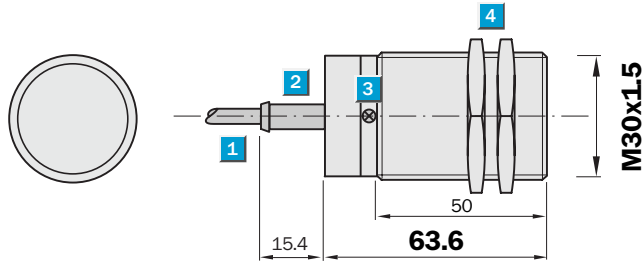
Capacitive sensor, CM 30, DC 4-wire, Plastic

Sensing range
16 / 25 mm

Capacitive sensor

- High EMC immunity
- Short-circuit protection (pulsed)
- Complementary output function
- Enclosure rating IP 67
- LED status indicator

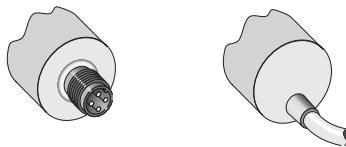
Dimensional drawing



- 1 Connection
- 2 Potentiometer
- 3 Display LED
- 4 Fastening nuts (2 x); width across 36, Plastic

Connection type

CM30-16BNP-KC1	CM30-16BNP-KW1
CM30-16BPP-KC1	CM30-16BPP-KW1
CM30-25NPP-KC1	CM30-25NPP-KW1
CM30-25NPP-KC1	CM30-25NPP-KW1



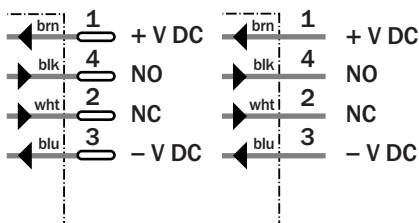
See chapter Accessories

Connector, M12, 4-pin

Mounting Systems

M12, 4-pin

4 x 0.34 mm²



Technical data		CM30-	16BNP-KC1	16BNP-KW1	16BPP-KC1	16BPP-KW1	25NNP-KC1	25NNP-KW1	25NPP-KC1	25NPP-KW1		
Sensing range S_n	25 mm											
	16 mm											
Electrical configuration	DC 4-wire											
Supply Voltage V_s	DC 10 ... 40 V											
Residual ripple U_{ss}	$\leq 10\%$ ¹⁾											
Voltage drop U_d	$\leq 2.5\text{ V}$ ²⁾											
Power consumption	$\leq 10\text{ mA}$ ³⁾											
Continuous current I_a	$\leq 200\text{ mA}$											
Time delay before availability t_v	$\leq 100\text{ ms}$											
Hysteresis H, of s_r	4 ... 20 %											
Repeatability R	$\leq 5\%$ (U_b and T_a constant) ⁴⁾											
Temperature drift, of s_r	$\pm 10\%$											
EMC	According to EN 60947-5-2											
Switching output	PNP											
	NPN											
Output function	Complementary											
Installation	Non-flush											
	Flush											
Connection type	Cable, PVC, 2 m											
	Connector, M12, 4-pin											
Enclosure rating	IP 67 ⁵⁾											
Max. switching frequency	50 Hz											
Dimensions	M30 x 1.5 ⁶⁾											
Short circuit protection	✓ ⁷⁾											
Reverse polarity protection	✓											
Power-up pulse suppression	✓											
Shock/vibration stress	30 g, 11 ms/10 ... 55 Hz, 1 mm											
Ambient operating temperature T_a	-25 °C ... +80 °C											
Housing material	Plastic											
Tightening torque	7.5 Nm											

¹⁾ of U_b
²⁾ at I_a max

³⁾ Without load
⁴⁾ of s_r

⁵⁾ according to EN 60529
⁶⁾ Thread diameter x pitch (mm)

⁷⁾ (pulsed)

Order Information	
Type	Order no.
CM30-16BNP-KC1	6 021 460
CM30-16BNP-KW1	6 021 459
CM30-16BPP-KC1	6 020 475
CM30-16BPP-KW1	6 020 473
CM30-25NNP-KC1	6 021 462
CM30-25NNP-KW1	6 021 461
CM30-25NPP-KC1	6 020 477
CM30-25NPP-KW1	6 020 476