

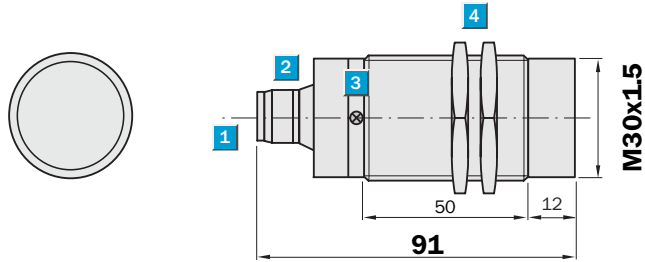
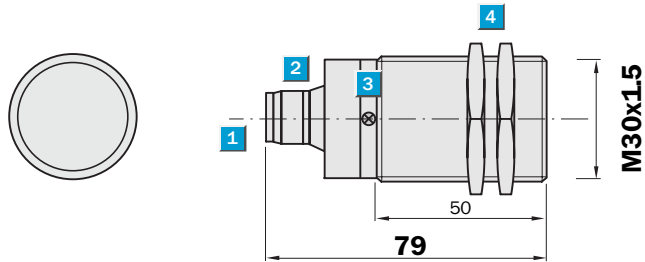
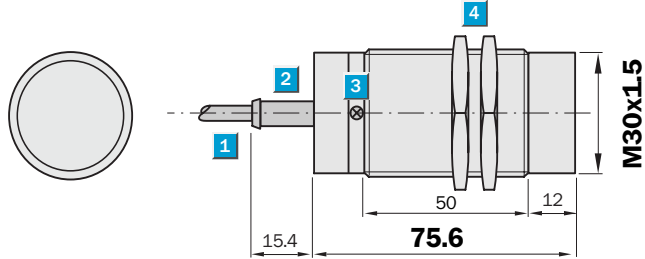
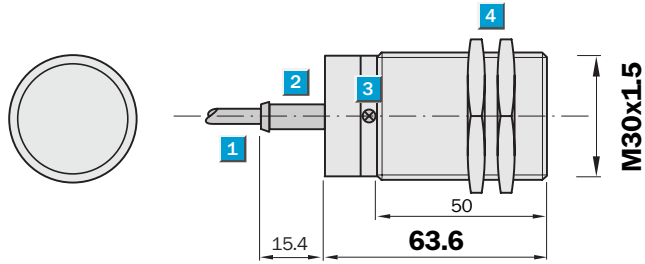
# Capacitive sensor, CM 30, DC 4-wire, Plastic

**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

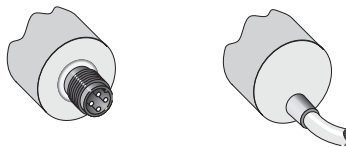


- 1 Connection
- 2 Potentiometer
- 3 Display LED
- 4 Fastening nuts (2 x); width across 36, Plastic



## 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



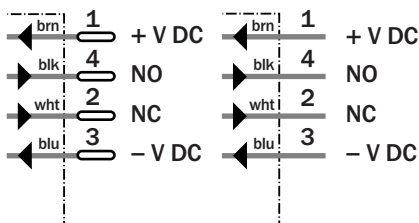
## See chapter Accessories

Connector, M12, 4-pin

Mounting Systems

M12, 4-pin

4 x 0.34 mm<sup>2</sup>



Technical data		CM30-	16BNP-KC1	16BNP-KW1	16BPP-KC1	16BPP-KW1	25NNP-KC1	25NNP-KW1	25NPP-KC1	25NPP-KW1		
<b>Sensing range S<sub>n</sub></b>	25 mm											
	16 mm											
<b>Electrical configuration</b>	DC 4-wire											
<b>Supply Voltage V<sub>s</sub></b>	DC 10 ... 40 V											
Residual ripple U <sub>ss</sub>	≤ 10 % <sup>1)</sup>											
Voltage drop U <sub>d</sub>	≤ 2.5 V <sup>2)</sup>											
Power consumption	≤ 10 mA <sup>3)</sup>											
<b>Continuous current I<sub>a</sub></b>	≤ 200 mA											
Time delay before availability t <sub>v</sub>	≤ 100 ms											
Hysteresis H, of s <sub>r</sub>	4 ... 20 %											
Repeatability R	≤ 5 % (U <sub>b</sub> and T <sub>a</sub> constant) <sup>4)</sup>											
Temperature drift, of s <sub>r</sub>	± 10 %											
EMC	According to EN 60947-5-2											
<b>Switching output</b>	PNP											
	NPN											
<b>Output function</b>	Complementary											
<b>Installation</b>	Non-flush											
	Flush											
<b>Connection type</b>	Cable, PVC, 2 m											
	Connector, M12, 4-pin											
Enclosure rating	IP 67 <sup>5)</sup>											
Max. switching frequency	50 Hz											
Dimensions	M30 x 1.5 <sup>6)</sup>											
<b>Short circuit protection</b>	✓ <sup>7)</sup>											
<b>Reverse polarity protection</b>	✓											
<b>Power-up pulse suppression</b>	✓											
Shock/vibration stress	30 g, 11 ms/10 ... 55 Hz, 1 mm											
Ambient operating temperature T <sub>a</sub>	-25 °C ... +80 °C											
Housing material	Plastic											
Tightening torque	7.5 Nm											

<sup>1)</sup> of U<sub>b</sub>  
<sup>2)</sup> at I<sub>a</sub> max

<sup>3)</sup> Without load  
<sup>4)</sup> of s<sub>r</sub>

<sup>5)</sup> according to EN 60529  
<sup>6)</sup> Thread diameter x pitch (mm)

<sup>7)</sup> (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