



# CM18-08BPP-EC1

CM

**CAPACITIVE PROXIMITY SENSORS**

**SICK**  
Sensor Intelligence.



Illustration may differ



### Ordering information

Type	Part no.
CM18-08BPP-EC1	6058145

Other models and accessories → [www.sick.com/CM](http://www.sick.com/CM)

### Detailed technical data

#### Features

<b>Housing</b>	Cylindrical thread design
<b>Thread size</b>	M18 x 1
<b>Diameter</b>	Ø 18 mm
<b>Sensing range <math>S_n</math></b>	3 mm ... 8 mm
<b>Safe sensing range <math>S_a</math></b>	6.12 mm <sup>1)</sup>
<b>Installation type</b>	Flush
<b>Switching frequency</b>	50 Hz
<b>Connection type</b>	Male connector M12, 4-pin
<b>Output type</b>	PNP
<b>Output function</b>	Complementary
<b>Output characteristic</b>	Wire configurable
<b>Electrical wiring</b>	DC 4-wire
<b>Adjustment</b>	Potentiometer (Sensitivity)
<b>Enclosure rating</b>	IP68, IP69K <sup>2)</sup>
<b>Authorizations</b>	Ecolab, CE-conformity, cULus <sup>3)</sup>

<sup>1)</sup> For flush mounting in electrically conductive materials  $S_a = 0.8 \times S_r$  at temperatures  $<0 \text{ }^\circ\text{C}$  and  $>60 \text{ }^\circ\text{C}$ .

<sup>2)</sup> 1 m water depth / 60 min.

<sup>3)</sup> P3-topax 19, P3-topax 56, P3-topax 66, P3-topactive DES.

#### Mechanics/electronics

<b>Supply voltage</b>	10 V DC ... 36 V DC
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<sup>1)</sup> Of  $U_b$ .

<sup>2)</sup> At  $I_a$  max.

<sup>3)</sup> Without load.

<sup>4)</sup> Of  $S_r$ .

<sup>5)</sup>  $U_b$  and  $T_a$  constant.

<sup>6)</sup> +120 °C short time, at the front of the sensor.