



# CME30-10BPS-KW1

CME

CAPACITIVE PROXIMITY SENSORS

**SICK**  
Sensor Intelligence.



### Ordering information

Type	Part no.
CME30-10BPS-KW1	6071158

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



### Detailed technical data

#### Features

<b>Housing</b>	Metric
<b>Thread size</b>	M30 x 1.5
<b>Diameter</b>	Ø 30 mm
<b>Sensing range S<sub>n</sub></b>	2 mm ... 10 mm
<b>Safe sensing range S<sub>a</sub></b>	7.2 mm
<b>Installation type</b>	Flush
<b>Switching frequency</b>	50 Hz
<b>Connection type</b>	Cable, 3-wire, 2 m <sup>1)</sup>
<b>Switching output</b>	PNP
<b>Output function</b>	NO
<b>Electrical wiring</b>	DC 3-wire
<b>Adjustment</b>	Potentiometer
	Sensitivity
<b>Enclosure rating</b>	IP67
<b>Items supplied</b>	Mounting nut, PA12 plastic (2x) Screwdriver for potentiometer adjustment (1 x)

<sup>1)</sup> Do not bend below 0 °C.

#### Mechanics/electronics

<b>Supply voltage</b>	10 V DC ... 30 V DC
<b>Ripple</b>	≤ 10 % <sup>1)</sup>
<b>Voltage drop</b>	≤ 2.5 V <sup>2)</sup>
<b>Current consumption</b>	10 mA <sup>3)</sup>

<sup>1)</sup> Of U<sub>B</sub>.

<sup>2)</sup> With I max.

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

<sup>4)</sup> Of S<sub>r</sub>.

<sup>5)</sup> Supply voltage U<sub>B</sub> and constant ambient temperature T<sub>a</sub>.

<sup>6)</sup> In EMC critical applications, conducted interference levels may lie within the frequency range of the oscillator (0.6 MHz - 1.8 MHz). This can cause changes to the output signal.

<b>Time delay before availability</b>	≤ 200 ms
<b>Hysteresis</b>	4 % ... 20 %
<b>Reproducibility</b>	≤ 5 % <sup>4) 5)</sup>
<b>Temperature drift (of S<sub>r</sub>)</b>	± 10 %
<b>EMC</b>	According to EN 60947-5-2 <sup>6)</sup>
<b>Continuous current I<sub>a</sub></b>	≤ 100 mA
<b>Cable material</b>	PVC
<b>Conductor size</b>	0.34 mm <sup>2</sup>
<b>Cable diameter</b>	Ø 5.2 mm
<b>Short-circuit protection</b>	✓
<b>Power-up pulse protection</b>	✓
<b>Shock and vibration resistance</b>	30 g, 11 ms / 3 pos., 3 neg. per axis, 10 ... 150 Hz, 1.0 mm / 15 g
<b>Ambient operating temperature</b>	-20 °C ... +80 °C
<b>Ambient temperature, storage</b>	-40 °C ... +80 °C
<b>Housing material</b>	Plastic, PBT
<b>Housing length</b>	79 mm
<b>Thread length</b>	50 mm
<b>Tightening torque, max.</b>	≤ 7.5 Nm
<b>UL File No.</b>	NRKH.E191603

1) Of U<sub>b</sub>.

2) With I max.

3) Without load.

4) Of S<sub>r</sub>.

5) Supply voltage U<sub>B</sub> and constant ambient temperature T<sub>a</sub>.

6) In EMC critical applications, conducted interference levels may lie within the frequency range of the oscillator (0.6 MHz - 1.8 MHz). This can cause changes to the output signal.

### Safety-related parameters

<b>MTTF<sub>D</sub></b>	1,041 years
<b>DC<sub>avg</sub></b>	0 %
<b>T<sub>M</sub> (mission time)</b>	20 years

### Reduction factors

<b>Note</b>	The values are reference values which may vary
<b>Metal</b>	1
<b>Water</b>	0.95
<b>PVC</b>	Approx. 0.4
<b>Oil</b>	Approx. 0.25
<b>Glass</b>	0.5
<b>Ceramics</b>	0.5
<b>Alcohol</b>	0.85
<b>Wood</b>	0.2 ... 0.7

### Installation note

<b>Remark</b>	Associated graphic see "Installation"
---------------	---------------------------------------

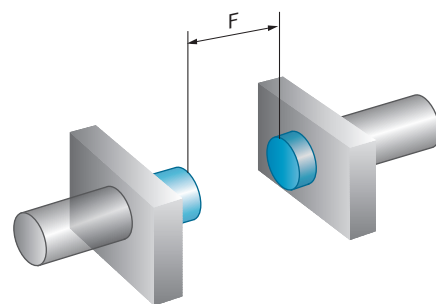
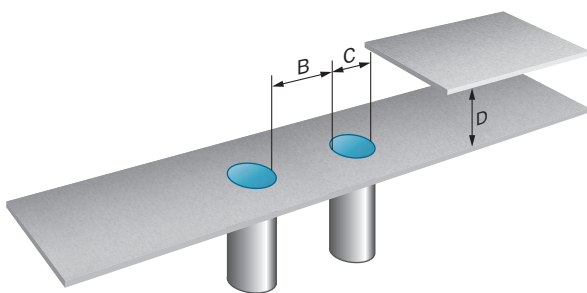
<b>B</b>	30 mm
<b>C</b>	30 mm
<b>D</b>	30 mm
<b>F</b>	60 mm

Classifications

<b>ECLASS 5.0</b>	27270102
<b>ECLASS 5.1.4</b>	27270102
<b>ECLASS 6.0</b>	27270102
<b>ECLASS 6.2</b>	27270102
<b>ECLASS 7.0</b>	27270102
<b>ECLASS 8.0</b>	27270102
<b>ECLASS 8.1</b>	27270102
<b>ECLASS 9.0</b>	27270102
<b>ECLASS 10.0</b>	27270102
<b>ECLASS 11.0</b>	27270102
<b>ECLASS 12.0</b>	27274201
<b>ETIM 5.0</b>	EC002715
<b>ETIM 6.0</b>	EC002715
<b>ETIM 7.0</b>	EC002715
<b>ETIM 8.0</b>	EC002715
<b>UNSPSC 16.0901</b>	39122230

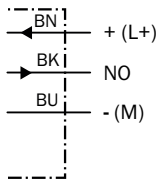
Installation note

Flush installation



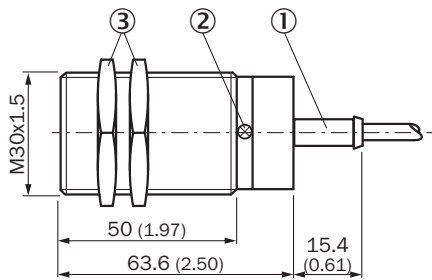
## Connection diagram

Cd-001



## Dimensional drawing (Dimensions in mm (inch))

CME30, flush, cable



- ① Connection
- ② LED yellow: status indicator
- ③ Fastening nuts (2 x); 36 mm hex, plastic

## SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

## WORLDWIDE PRESENCE:

Contacts and other locations –[www.sick.com](http://www.sick.com)