



## Capacitive Proximity Sensors Rectangular housing, CQ4

CQ4-08EPSKT1



**Model Name** > CQ4-08EPSKT1  
**Part No.** > 6051004



**At a glance**

- High switching frequency of 100 Hz
- Quick and easy sensitivity adjustment via potentiometer
- Visual alarm in event of short-circuit
- Reinforced glass-fiber housing
- Operating temperatures up to +75 °C
- Sensor can be installed flush in all materials
- Recess on rear for mounting a cable tie
- Flush installation in all materials possible
- Sensing range of up to 8 mm

**Your benefits**

- Reliable detection of objects thanks to high switching frequency, even in accelerated production processes
- Simple and fast sensitivity control for adaptation to prevailing conditions
- High reliability thanks to rugged, glass-fiber reinforced housing, proven in hard industrial use
- Minimal installation space requirements thanks to compact design for use in restricted spaces
- Short installation time and no holes in the container or tank walls thanks to non-contact measurement



**Features**

Design:	Rectangular
Dimensions (W x H x D):	16 mm x 39.5 mm x 12 mm
Sensing range S <sub>n</sub> :	8 mm <sup>1)</sup>
Assured sensing range S <sub>a</sub> :	5.76 mm
Installation type:	Non-flush/flush
Switching frequency:	100 Hz
Output type:	PNP
Output function:	NO
Electrical wiring:	DC 3-wire
Enclosure rating:	IP 67 <sup>2)</sup>
Electrical connection:	Connector M8, 3-pin
Adjustment:	Potentiometer, 5 turns , Sensitivity

<sup>1)</sup> For flush mounting S<sub>n</sub> appr. 6 mm (S<sub>a</sub> appr. 4.32 mm) [object grounded]. <sup>2)</sup> According to EN 60529

## Mechanics/electronics

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Housing material:	Plastic
Supply voltage:	10 V DC ... 30 V DC
Residual ripple:	≤ 10 %
Voltage drop:	≤ 2.5 V DC <sup>1)</sup>
Power consumption:	≤ 12 mA <sup>2)</sup>
Time delay before availability:	≤ 200 ms
Hysteresis:	4 % ... 20 % <sup>3)</sup>
Repeatability:	≤ 5 % <sup>4) 5)</sup>
Temperature drift (of Sr):	± 20 %
EMC:	According to EN 60947-5-2
Output current I <sub>a</sub> :	≤ 150 mA
Short-circuit protection:	✓
Reverse polarity protection:	✓
Power-up pulse protection:	✓
Shock and vibration resistance:	30 g, 11 ms/10 ... 55 Hz, 1 mm
Ambient temperature operation:	-20 °C ... +75 °C
Ambient storage temperature:	-40 °C ... +85 °C
Housing cap material:	ABS
Sensing face material:	Plastic
UL File No.:	NRKH.E191603

<sup>1)</sup> At I<sub>a</sub> max    <sup>2)</sup> Without load    <sup>3)</sup> Depending on installation and environmental conditions and sensitivity adjustment, hysteresis may vary    <sup>4)</sup> Of Sr    <sup>5)</sup> Ub and Ta constant

## Reduction factors

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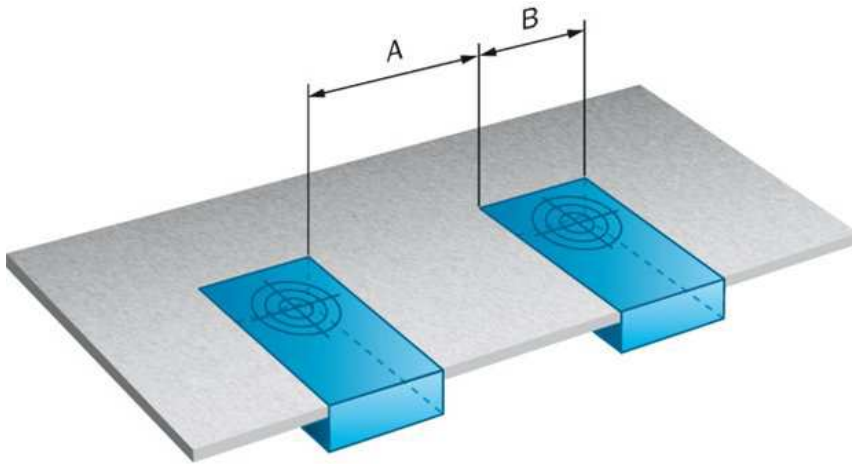
Note:	The values are reference values which may vary
Metal:	1
Water:	1
PVC:	Ca. 0.4
Oil:	Ca. 0.25

## Installation note

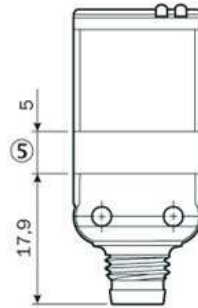
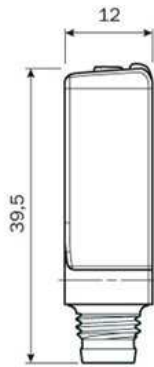
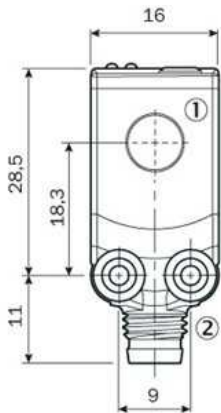
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Remark: Associated graphic see "Installation"

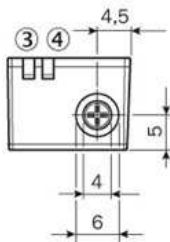
## Installation note



## Dimensional drawing

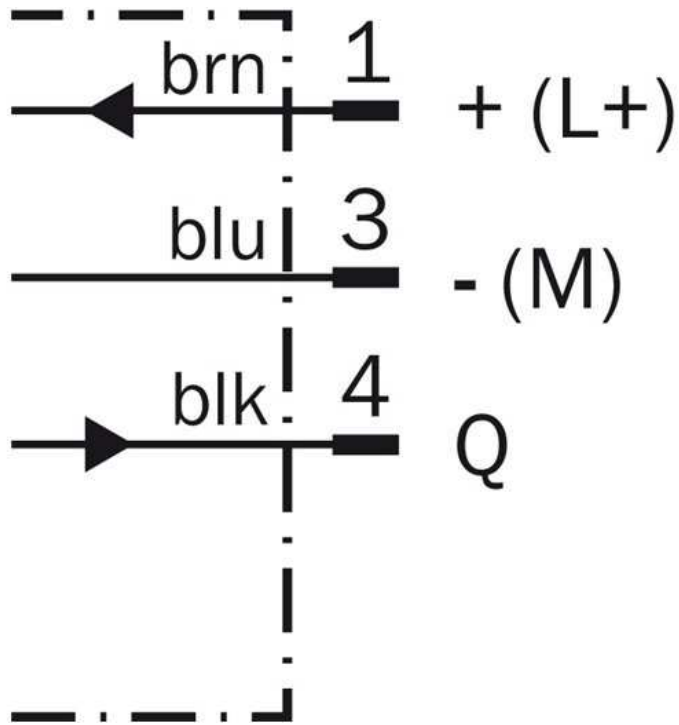


- |1| Sensing face
- |2| Connector M8, 3-pin
- |3| Yellow LED: status detection of object/medium
- |4| LED monitoring area
- |5| line for cable tie



Connection diagram

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