

CQ4-08EPOKT1

CAPACITIVE PROXIMITY SENSORS





Ordering information

Туре	Part no.
CQ4-08EPOKT1	6051005

Other models and accessories → www.sick.com/CQ

Illustration may differ







Detailed technical data

Features

reatures	
Housing	Rectangular
Dimensions (W x H x D)	16 mm x 39.5 mm x 12 mm
Sensing range S _n	1 mm 8 mm ¹⁾ 1 mm 6 mm ²⁾
Safe sensing range S _a	5.76 mm
Installation type	Non-flush Flush
Switching frequency	100 Hz
Connection type	Connector M8, 3-pin
Switching output	PNP
Output function	NC
Electrical wiring	DC 3-wire
Adjustment	Potentiometer, 5 turns (Sensitivity)
Enclosure rating	IP67 ³⁾

 $^{^{1)}}$ For non-flush installation.

Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Ripple	≤ 10 %
Voltage drop	\leq 2.5 V DC $^{1)}$
Current consumption	\leq 12 mA $^{2)}$

¹⁾ At I_a max.

²⁾ For flush mounting.

³⁾ According to EN 60529.

²⁾ Without load.

³⁾ Depending on installation and environmental conditions and sensitivity adjustment, hysteresis may vary.

⁵⁾ Ub and Ta constant.

Time delay before availability	≤ 200 ms
Hysteresis	4 % 20 % ³⁾
Reproducibility	≤ 5 % ^{4) 5)}
Temperature drift (of S _r)	± 20 %
EMC	According to EN 60947-5-2
Continuous current I _a	≤ 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 operating temperature	-20 °C +75 °C
Ambient storage temperature	-40 °C +85 °C
Housing material	Plastic, ABS
Sensing face material	Plastic
UL File No.	NRKH.E191603

¹⁾ At I_a max.

Reduction factors

Note	The values are reference values which may vary
Metal	1
Water	1
PVC	Approx. 0.4
Oil	Approx. 0.25
Glass	0.6
Ceramics	0.5
Alcohol	0.7
Wood	0.2 0.7

Installation note

Remark	Associated graphic see "Installation"
Α	16 mm
В	16 mm

Classifications

ECI@ss 5.0	27270102
ECI@ss 5.1.4	27270102
ECI@ss 6.0	27270102
ECI@ss 6.2	27270102
ECI@ss 7.0	27270102
ECI@ss 8.0	27270102

²⁾ Without load.

³⁾ Depending on installation and environmental conditions and sensitivity adjustment, hysteresis may vary.

⁴⁾ Of Sr.

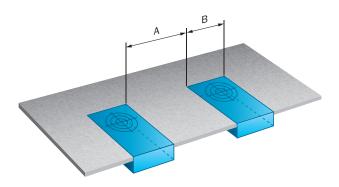
⁵⁾ Ub and Ta constant.

CQ4-08EPOKT1 | CQ

CAPACITIVE PROXIMITY SENSORS

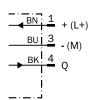
ECI@ss 8.1	27270102
ECI@ss 9.0	27270102
ETIM 5.0	EC002715
ETIM 6.0	EC002715
UNSPSC 16.0901	39122230

Installation note



Connection diagram

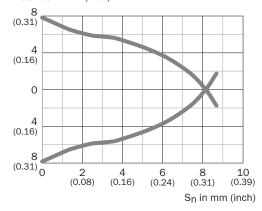
cd-045



Characteristic curve

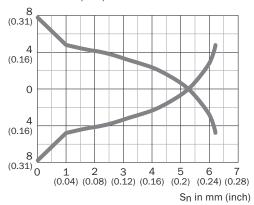
CQ4, Non-flush installation

Distance in mm (inch)



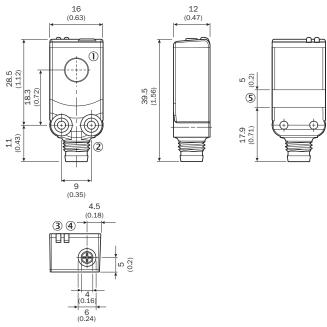
CQ4, Flush installation

Distance in mm (inch)



Dimensional drawing (Dimensions in mm (inch))

CQ4, connector



- ① Sensing face
- ② Connector M8, 3-pin
- 3 Yellow LED: status detection of object/medium
- ④ LED green: operating indicator
- ⑤ Line for cable tie

Recommended accessories

Other models and accessories → www.sick.com/CQ

	Brief description	Туре	Part no.
		туре	rait iiu.
Mounting brackets and plates			
in the second	Mounting bracket for wall mounting, Stainless steel 1.4571, mounting hardware included	BEF-W4-A	2051628
1000	Mounting bracket for floor mounting, Stainless steel 1.4571, mounting hardware included	BEF-W4-B	2051630
Terminal and	alignment brackets		
	Ball clamp bracket, Plastic, mounting hardware included	BEF-GH-MINI01	2023160
Plug connecto	ors and cables		
	Head A: female connector, M8, 3-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YF8U13-020VA1XLEAX	2095860
	Head A: female connector, M8, 3-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m	YF8U13-050VA1XLEAX	2095884
3	Head A: female connector, M8, 3-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YG8U13-020VA1XLEAX	2096165
	Head A: female connector, M8, 3-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m	YG8U13-050VA1XLEAX	2096166
	Head A: female connector, M8, 3-pin, straight Head B: - Cable: unshielded	DOS-0803-G	7902077
	Head A: female connector, M8, 3-pin, angled Head B: - Cable: unshielded	DOS-0803-W	7902078

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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."

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