

CQ35-25NPP-KC1

CAPACITIVE PROXIMITY SENSORS



Ordering information

Туре	Part no.
CQ35-25NPP-KC1	6020479

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

Illustration may differ







Detailed technical data

Features

Housing	Rectangular
nousing	Rectangular
Dimensions (W x H x D)	35 mm x 69.5 mm x 15 mm
Sensing range S _n	4 mm 25 mm
Safe sensing range S _a	18 mm
Installation type	Non-flush
Switching frequency	50 Hz
Connection type	Male connector M12, 4-pin
Output type	PNP
Output function	Complementary
Electrical wiring	DC 4-wire
Adjustment	Potentiometer, 270° (Sensitivity)
Enclosure rating	IP67 ¹⁾

¹⁾ According to EN 60529.

Mechanics/electronics

Supply voltage	10 V DC 36 V DC
Ripple	≤ 10 % ¹⁾
Voltage drop	\leq 2.5 V DC $^{2)}$
Current consumption	\leq 10 mA $^{3)}$
Time delay before availability	≤ 100 ms
Hysteresis	4 % 20 %
Reproducibility	≤ 5 % ^{4) 5)}

¹⁾ Of Ub.

²⁾ At I_a max.

³⁾ Without load.

 $^{^{4)}}$ Of Sr.

 $^{^{5)}}$ Ub and Ta constant.

⁶⁾ In EMC critical applications, conducted interference levels may lie within the frequency range of the oscillator. This can cause changes to the output signal. (See operating instructions.).

Temperature drift (of S _r)	± 10 %
EMC	According to EN 60947-5-2 ⁶⁾
Continuous current I _a	≤ 200 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	-25 °C +75 °C
Housing material	Plastic, PC
Sensing face material	Plastic
UL File No.	NRKH.E191603

¹⁾ Of Ub.

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"
A	35 mm
В	35 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
ECI@ss 8.1	27270102
ECI@ss 9.0	27270102
ETIM 5.0	EC002715

²⁾ At I_a max.

³⁾ Without load.

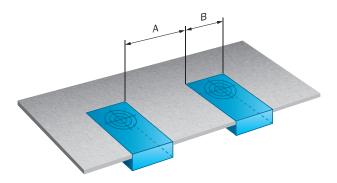
⁴⁾ Of Sr.

⁵⁾ Ub and Ta constant.

⁶⁾ In EMC critical applications, conducted interference levels may lie within the frequency range of the oscillator. This can cause changes to the output signal. (See operating instructions.).

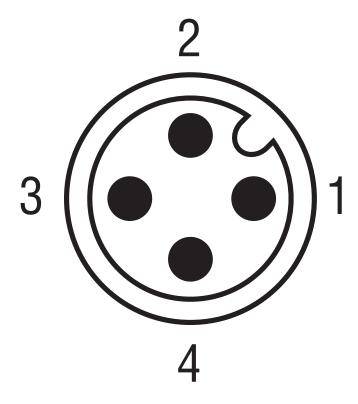
ETIM 6.0	EC002715
UNSPSC 16.0901	39122230

Installation note



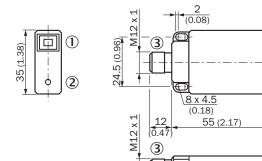
Connection diagram

Cd-006



Dimensional drawing (Dimensions in mm (inch))

CQ35, connector



- ① Indication LED② Potentiometer
- ③ Connection

Recommended accessories

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

	Brief description	Туре	Part no.	
Plug connect	Plug connectors and cables			
	Head A: female connector, M12, 4-pin, straight Head B: cable Cable: PVC, unshielded, 2 m	DOL-1204-G02M	6009382	
No	Head A: female connector, M12, 4-pin, straight Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 2 m	DOL-1204-G02MC	6025900	
	Head A: female connector, M12, 4-pin, straight Head B: cable Cable: PVC, unshielded, 5 m	DOL-1204-G05M	6009866	
NO.	Head A: female connector, M12, 4-pin, straight Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 5 m	DOL-1204-G05MC	6025901	
	Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 2 m	DOL-1204-W02M	6009383	
6	Head A: female connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 2 m	DOL-1204-W02MC	6025903	
	Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 5 m	DOL-1204-W05M	6009867	
7	Head A: female connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 5 m	DOL-1204-W05MC	6025904	

2.5 (0.10)

69.5 (2.74)

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CAPACITIVE PROXIMITY SENSORS

Brief description	Туре	Part no.
Head A: female connector, M12, 4-pin, straight Head B: - Cable: unshielded	DOS-1204-G	6007302
Head A: female connector, M12, 4-pin, angled Head B: - Cable: unshielded	DOS-1204-W	6007303

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