

CQ35-25NPP-KC1

CAPACITIVE PROXIMITY SENSORS



Ordering information

Туре	Part no.
CQ35-25NPP-KC1	6020479

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





Detailed technical data

Features

Housing	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
Switching output	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	10 mA ³⁾
Time delay before availability	≤ 100 ms

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.).

Hysteresis	4 % 20 %
Reproducibility	≤ 5 % ^{4) 5)}
Temperature drift (of S _r)	± 10 %
ЕМС	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
Items supplied	Screwdriver for potentiometer adjustment (1 x)
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"
Α	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

 $^{^{2)}}$ At $\rm I_a$ max.

 $^{^{}m 3)}$ Without load.

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

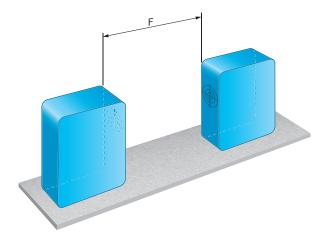
 $^{^{5)}}$ Ub and Ta constant.

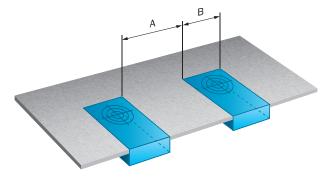
⁶⁾ In EMC critical applications, conducted interference levels may lie within the frequency range of the oscillator. This can cause changes to the output signal. (See operating instructions.).

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ECI@ss 8.1	27270102
ECI@ss 9.0	27270102
ECI@ss 10.0	27270102
ECI@ss 11.0	27270102
ETIM 5.0	EC002715
ETIM 6.0	EC002715
ETIM 7.0	EC002715
UNSPSC 16.0901	39122230

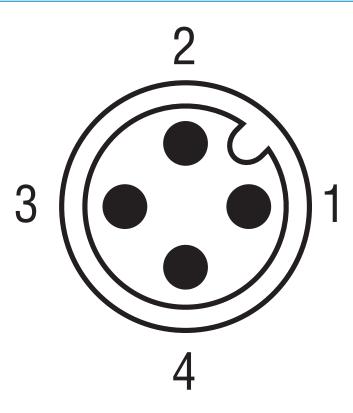
Installation note





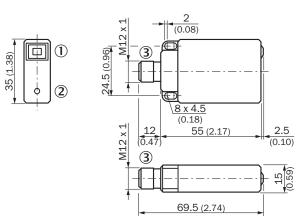
Connection diagram

Cd-006



Dimensional drawing (Dimensions in mm (inch))

CQ35, connector



- ① Indication LED
- ② 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, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m	YF2A14- 020UB3XLEAX	2095607	
	Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YF2A14- 020VB3XLEAX	2096234	
	Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m	YF2A14- 050UB3XLEAX	2095608	
	Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m	YF2A14- 050VB3XLEAX	2096235	
	Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m	YG2A14- 020UB3XLEAX	2095766	
3	Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YG2A14- 020VB3XLEAX	2095895	
	Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m	YG2A14- 050UB3XLEAX	2095767	
*	Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m	YG2A14- 050VB3XLEAX	2095897	
	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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