

CQ28-10NPP-KW1

CAPACITIVE PROXIMITY SENSORS





Ordering information

Туре	Part no.
CQ28-10NPP-KW1	6030132

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

Illustration may differ



Detailed technical data

Features

Housing	Rectangular
Dimensions (W x H x D)	28 mm x 46 mm x 5.5 mm
Sensing range S _n	1 mm 10 mm
Safe sensing range S _a	7.2 mm
Installation type	Non-flush
Switching frequency	Approx. 10 Hz
Connection type	Cable, 4-wire, 2 m ¹⁾
Switching output	PNP
Output function	NC or NO
Electrical wiring	DC 4-wire
Adjustment	Single teach-in button (Sensitivity) Cable (Sensitivity)
Enclosure rating	IP68 ²⁾

 $^{^{1)}}$ Do not bend below 0 $^{\circ}\text{C}.$

Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Ripple	≤ 10 %
Voltage drop	≤ 2.5 V DC ¹⁾
Current consumption	\leq 12 mA $^{2)}$
Time delay before availability	≤ 300 ms

 $^{^{1)}}$ At I_a max.

²⁾ According to EN 60529.

²⁾ Without load.

³⁾ Of Sr.

 $^{^{4)}}$ Ub and Ta constant.

⁵⁾ 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.).

Reproducibility	≤ 5 % ^{3) 4)}
Temperature drift (of S _r)	± 10 %
ЕМС	According to EN 60947-5-2 ⁵⁾
Continuous current I _a	≤ 200 mA
Cable material	PVC
Conductor size	0.14 mm ²
Short-circuit protection	√
Reverse polarity protection	✓
Shock and vibration resistance	30 g, 11 ms / 10 55 Hz, 1 mm
Ambient operating temperature	-20 °C +85 °C
Ambient storage temperature	-40 °C +85 °C
Housing material	Plastic, PBT
Sensing face material	Plastic
UL File No.	NRKH.E191603

 $^{^{1)}}$ At I $_{\rm a}$ 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"
A	27.6 mm
В	27.6 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

²⁾ Without load.

³⁾ Of Sr.

 $^{^{4)}}$ Ub and Ta constant.

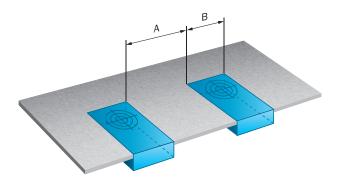
⁵⁾ In EMC critical applications, conducted interference levels may lie within the frequency range of the oscillator. This can cause changes to the output signal. (See operating instructions.).

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

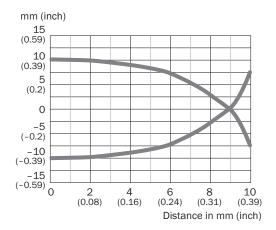
Installation note



Connection diagram

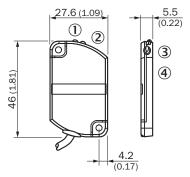
cd-023

Characteristic curve



Dimensional drawing (Dimensions in mm (inch))

CQ28, cable



- ① LED indicator green
- ② LED indicator yellow
- ③ Teach-in button
- Sensing face

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."

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