

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	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	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.

Safety-related parameters

MTTF _D	1,390 years
DC _{avg}	0%

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

²⁾ Without load.

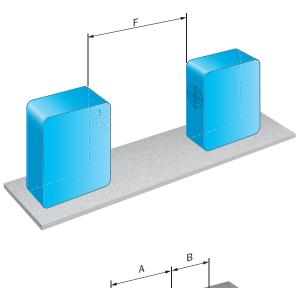
³⁾ Of Sr.

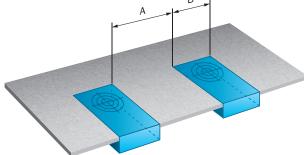
⁴⁾ Ub and Ta constant.

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.).

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
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

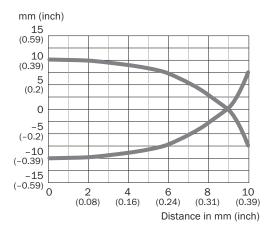




Connection diagram

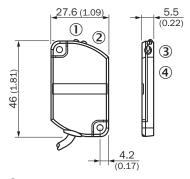
Cd-023

Characteristic curve



Dimensional drawing (Dimensions in mm (inch))

CQ28, cable



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

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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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