



CQ35-25NPP-KW1

CAPACITIVE PROXIMITY SENSORS

SICKSensor Intelligence.



Ordering information

Туре	Part no.
CQ35-25NPP-KW1	6020478

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

Illustration may differ



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	Cable, 4-wire, 2 m ¹⁾
Switching output	PNP
Output function	Complementary
Electrical wiring	DC 4-wire
Adjustment	Potentiometer, 270° (Sensitivity)
Enclosure rating	IP67 ²⁾
Items supplied	Screwdriver for potentiometer adjustment (1 x)

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

Mechanics/electronics

Supply voltage	10 V DC 36 V DC
Ripple	≤ 10 % ¹⁾

¹⁾ Of Ub.

²⁾ According to EN 60529.

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.).

Voltage drop	\leq 2.5 V DC $^{2)}$
Current consumption	10 mA ³⁾
Time delay before availability	≤ 100 ms
Hysteresis	4 % 20 %
Reproducibility	≤ 5 % ^{4) 5)}
Temperature drift (of S _r)	± 10 %
EMC	According to EN 60947-5-2 ⁶⁾
Continuous current I _a	≤ 200 mA
Cable material	PVC
Conductor size	0.34 mm ²
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.

Safety-related parameters

MTTF _D	897 years
DC _{avg}	0 %
T _M (mission time)	20 years

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

 $^{^{2)}}$ At I $_{\rm a}$ max.

³⁾ Without load.

⁴⁾ Of Sr.

 $^{^{5)}\,\}mathrm{Ub}$ and Ta constant.

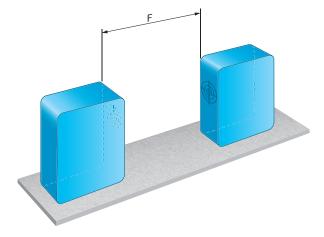
⁶⁾ In EMC critical applications, conducted interference levels may lie within the frequency range of the oscillator. This can cause changes to the output signal. (See operating instructions.).

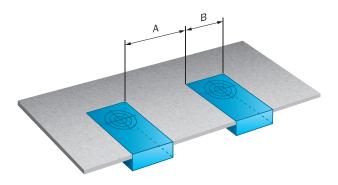
В	35 mm
F	6 x S _n (max. 150 mm)

Classifications

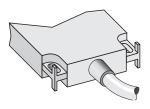
5.0	27270102
5.1.4	27270102
6.0	27270102
6.2	27270102
7.0	27270102
8.0	27270102
8.1	27270102
9.0	27270102
10.0	27270102
11.0	27270102
12.0	27274201
. 0	EC002715
C 16.0901	39122230

Installation note





Connection type



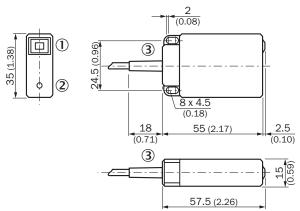
Connection diagram

Cd-005



Dimensional drawing (Dimensions in mm (inch))

CQ35, cable



- ① Display LED② Potentiometer
- 3 Connection

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