



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	Sensitivity (270°)
Enclosure rating	IP67 ²⁾
Items supplied	Screwdriver for potentiometer adjustment (1 x)

 $^{^{1)}}$ Do not bend below 0 °C.

Mechanics/electronics

upply voltage	10 V DC 36 V DC
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¹⁾ Of Ub.

²⁾ According to EN 60529.

²⁾ At I_a max.

³⁾ Without load.

⁴⁾ Of Sr.

 $^{^{5)}\,\}mbox{Supply}$ voltage $\mbox{U}_{\mbox{\footnotesize B}}$ and constant ambient temperature Ta.

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.).

Ripple	≤ 10 % ¹⁾
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	√
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"
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⁴⁾ Of Sr.

 $^{^{5)}\,\}mbox{Supply}$ voltage $\mbox{U}_{\mbox{\footnotesize B}}$ and constant ambient temperature Ta.

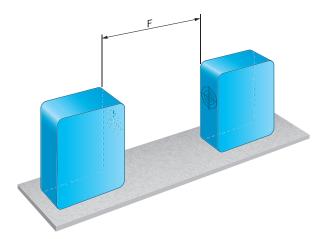
⁶⁾ In EMC critical applications, conducted interference levels may lie within the frequency range of the oscillator. This can cause changes to the output signal. (See operating instructions.).

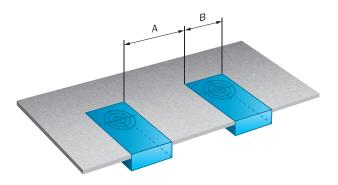
Α	35 mm
В	35 mm
F	6 x S _n (max. 150 mm)

Classifications

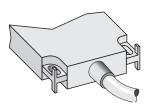
SS 5.0	27270102
SS 5.1.4	27270102
SS 6.0	27270102
SS 6.2	27270102
SS 7.0	27270102
SS 8.0	27270102
SS 8.1	27270102
SS 9.0	27270102
SS 10.0	27270102
SS 11.0	27270102
SS 12.0	27274201
5.0	EC002715
6.0	EC002715
7.0	EC002715
8.0	EC002715
PSC 16.0901	39122230

Installation note





Connection type



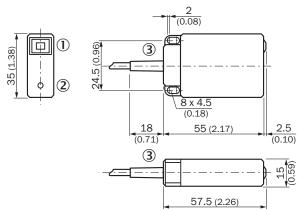
Connection diagram

Cd-005



Dimensional drawing (Dimensions in mm (inch))

CQ35, cable



- ① Display LED② Potentiometer
- 3 Connection

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.

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For us, that is "Sensor Intelligence."

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