CQ35-25NNP-KW1

CQ

CAPACITIVE PROXIMITY SENSORS

SICK
Sensor Intelligence.
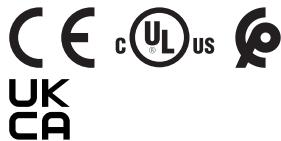
CQ35-25NNP-KW1 | CQ
CAPACITIVE PROXIMITY SENSORS

Illustration may differ

Ordering information

Type	part no.
CQ35-25NNP-KW1	6021463

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	Cable, 4-wire, 2 m [1]
Switching output	NPN
Switching output detail	NPN
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.
[2] According to EN 60529.

Mechanics/electronics

Supply voltage	10 V DC … 36 V DC
Ripple	≤ 10 % [1]
Voltage drop	≤ 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 mm²
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.

[2] At I_a max.

[3] Without load.

[4] Of Sr.

[5] Supply voltage U_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.).

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
B	35 mm
F	6 x S_n (max. 150 mm)

Certificates

EU declaration of conformity	✓
UK declaration of conformity	✓
Moroccan declaration of conformity	✓
China-RoHS	✓
cULus certificate	✓

Classifications

ECLASS 5.0	27270102
ECLASS 5.1.4	27270102
ECLASS 6.0	27270102
ECLASS 6.2	27270102
ECLASS 7.0	27270102
ECLASS 8.0	27270102
ECLASS 8.1	27270102
ECLASS 9.0	27270102
ECLASS 10.0	27270102
ECLASS 11.0	27270102
ECLASS 12.0	27274201
ETIM 5.0	EC002715
ETIM 6.0	EC002715
ETIM 7.0	EC002715
ETIM 8.0	EC002715
UNSPSC 16.0901	39122230

Installation note
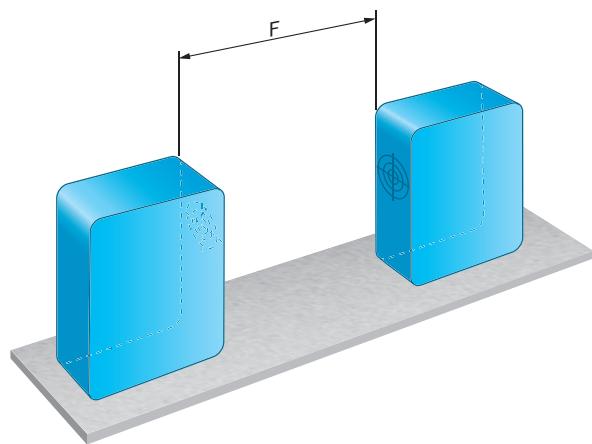
Installation note
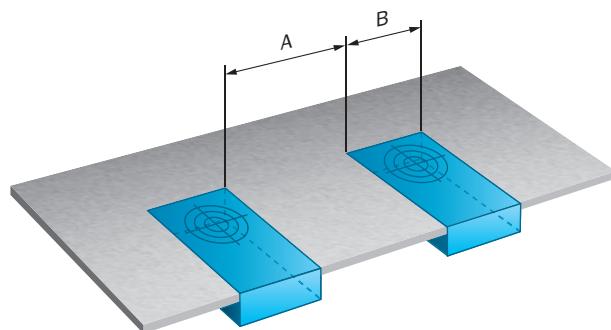
Connection type
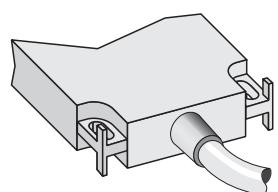
Connection diagram Cd-005

BN	+ (L+)
BK	NO
WH	NC
BU	- (M)
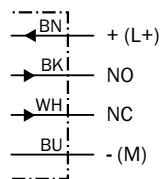
Dimensional drawing CQ35, cable
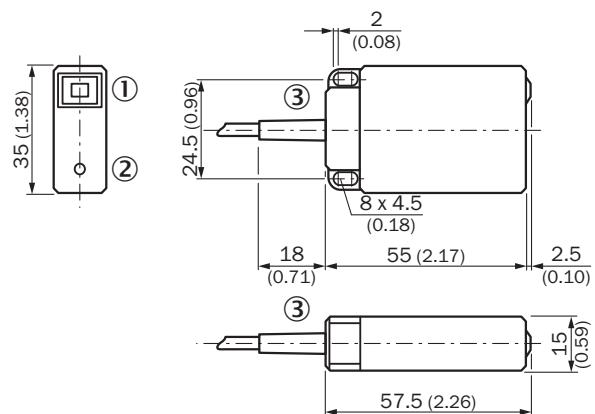
Dimensions in mm (inch)
① Display LED
② Potentiometer
③ Connection

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.

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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