

ONLINE DATA SHEET
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Capacitive Proximity Sensors
Rectangular housing, CQ35

CQ35-25NPP-KW1



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Capacitive Proximity Sensors
Rectangular housing, CQ35

Model Name > CQ35-25NPP-KW1
Part No. > 6020478





At a glance

- Rectangular housing
- Operating distance up to 25 mm
- High electromagnetic immunity
- IP 67 enclosure rating
- Complementary output function
- LED status indicator
- Short-circuit reverse polarity and power-up pulse suppression protection
- PNP or NPN output versions are available

Your benefits

- Durable housing withstands harsh industrial applications, reducing maintenance costs and downtime
- Quick and easy adjustment of the switching point saves installation and setup time
- Application flexibility - solves applications where other sensing technologies cannot provide a solution
- High shock and vibration resistance increases sensor life and reduces maintenance costs
- Non-contact level measurement, even through container or tank walls, which eliminates drilling holes and thus reduces installation time

Features

Design:	Rectangular
Dimensions (W x H x D):	35 mm x 15 mm x 57.5 mm
Sensing range Sn:	25 mm
Assured sensing range Sa:	18 mm
Installation type:	Non-flush
Switching frequency:	50 Hz
Output type:	PNP
Output function:	Complementary
Electrical wiring:	DC 4-wire
Enclosure rating:	IP 67 [1]
Electrical connection:	Cable, 4-wire, 2 m [2]
Adjustment:	Potentiometer, 270 ° , Sensitivity

[1] According to EN 60529 [2] Do not bend below 0 °C

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Mechanics/electronics

Housing material:	Plastic
Supply voltage:	10 V DC ... 36 V
Residual ripple:	≤ 10 % [1]
Voltage drop:	≤ 2.5 V DC [2]
Power consumption:	≤ 10 mA [3]
Time delay before availability:	≤ 100 ms
Hysteresis:	4 % ... 20 %
Repeatability::	≤ 5 % [4] [5]
Temperature drift (of Sr):	± 10 %
EMC:	According to EN 60947-5-2 [6]
Output current Ia:	≤ 200 mA
Cable material:	PVC
Conductor cross-section:	0.34 mm²
Short-circuit protection:	✓
Reverse polarity protection:	✓
Power-up pulse protection:	✓
Shock and vibration resistance:	30 g, 11 ms／10 ... 55 Hz, 1 mm
Ambient temperature operation:	-25 °C ... +75 °C
Housing cap material:	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] Ub and Ta constant [6] In EMC critical applications, conducted interference levels may lie in the frequency range of the oscillator. This can cause changes to the output signal.(see operating instructions)

Reduction factors

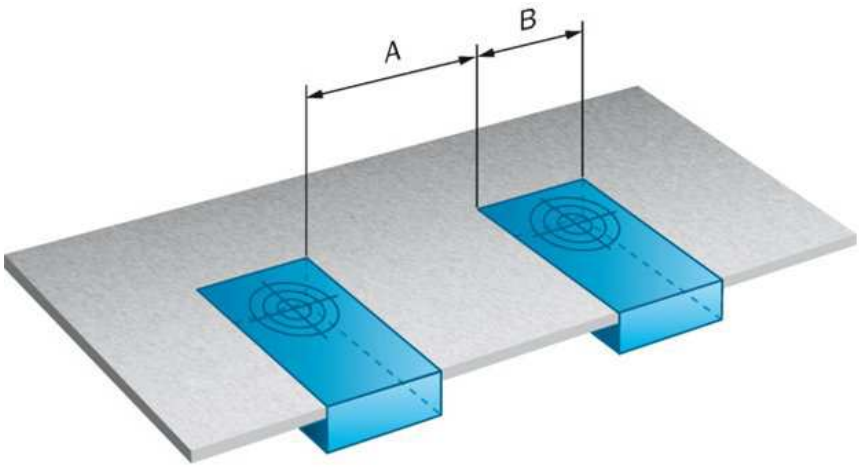
Note:	The values are reference values which may vary
Metal:	1
Water:	1
PVC:	Ca. 0.4
Oil:	Ca. 0.25

Installation note

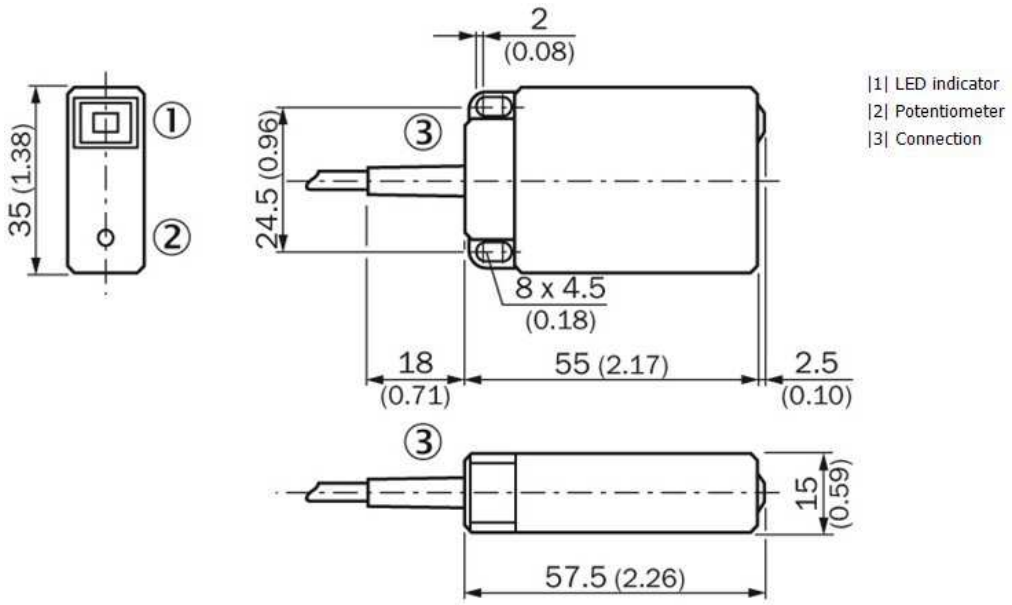
Remark:	Associated graphic see "Installation"
A:	35 mm
B:	35 mm

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Installation note



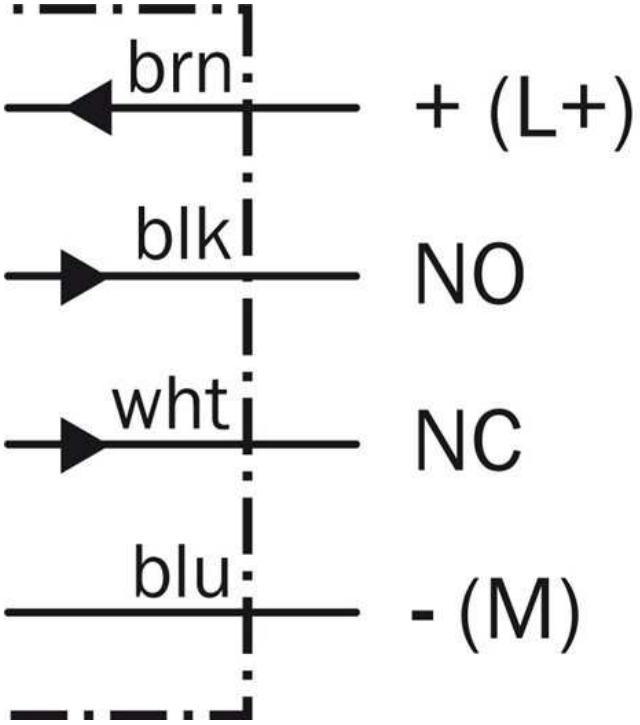
Dimensional drawing



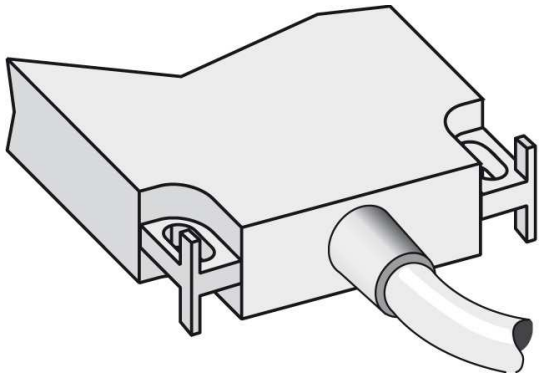
All dimensions in mm (inch)

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Connection diagram



Connection type



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A4 4c int43

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