



CQ4-08EPSKT1

CQ

CAPACITIVE PROXIMITY SENSORS

SICK
Sensor Intelligence.



Illustration may differ



Ordering information

Type	Part no.
CQ4-08EPSKT1	6051004

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

Detailed technical data

Features

Housing	Rectangular
Dimensions (W x H x D)	16 mm x 39.5 mm x 12 mm
Sensing range S_n	8 mm ¹⁾
Safe sensing range S_a	5.76 mm
Installation type	Non-flush Flush
Switching frequency	100 Hz
Connection type	Connector M8, 3-pin
Output type	PNP
Output function	NO
Electrical wiring	DC 3-wire
Adjustment	Potentiometer, 5 turns (Sensitivity)
Enclosure rating	IP 67 ²⁾

¹⁾ For flush mounting S_n appr. 6 mm (S_a appr. 4.32 mm) [object grounded].

²⁾ According to EN 60529.

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	≤ 200 ms

¹⁾ At I_a max.

²⁾ Without load.

³⁾ Depending on installation and environmental conditions and sensitivity adjustment, hysteresis may vary.

⁴⁾ Of S_r .

⁵⁾ U_b and T_a constant.

Hysteresis	4 % ... 20 % ³⁾
Repeatability	≤ 5 % ⁴⁾ ⁵⁾
Temperature drift (of S_r)	± 20 %
EMC	According to EN 60947-5-2
Continuous current I_a	≤ 150 mA
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	-20 °C ... +75 °C
Ambient storage temperature	-40 °C ... +85 °C
Housing material	Plastic, ABS
Sensing face material	Plastic
UL File No.	NRKH.E191603

1) At I_a max.

2) Without load.

3) Depending on installation and environmental conditions and sensitivity adjustment, hysteresis may vary.

4) Of S_r.

5) U_b and T_a constant.

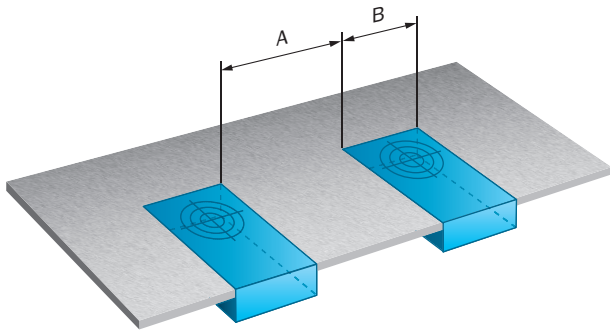
Reduction factors

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

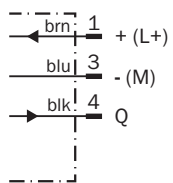
Remark	Associated graphic see "Installation"
A	16 mm
B	16 mm

Installation note



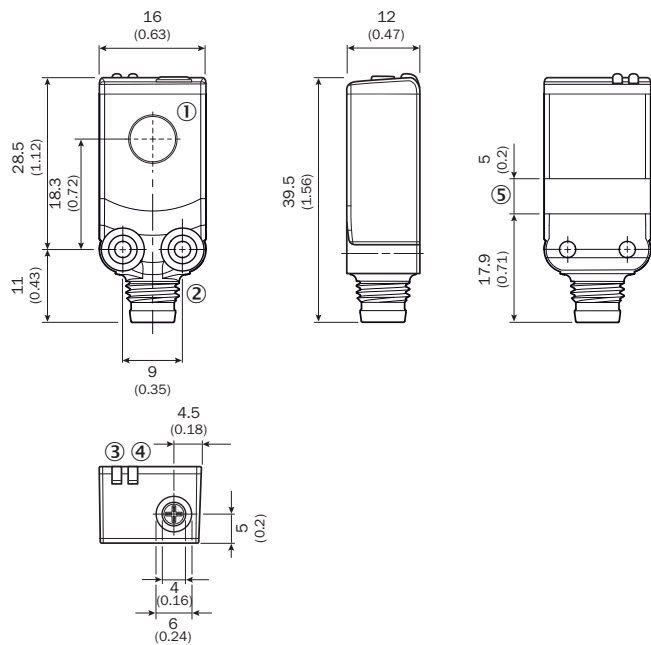
Connection diagram

Cd-045



Dimensional drawing (Dimensions in mm (inch))

CQ4, connector



- ① Sensing face
- ② Connector M8, 3-pin
- ③ Yellow LED: status detection of object/medium
- ④ LED monitoring area
- ⑤ Line for cable tie

Recommended accessories

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

	Brief description	Type	Part no.
Mounting brackets and mounting plates			
	Mounting bracket for wall mounting, Stainless steel 1.4571, mounting hardware included	BEF-W4-A	2051628
	Mounting bracket for floor mounting, Stainless steel 1.4571, mounting hardware included	BEF-W4-B	2051630
Terminal and alignment brackets			
	Ball clamp bracket, plastic, mounting hardware included	BEF-GH-MINI01	2023160
Plug connectors and cables			
	Head A: female connector, M8, 3-pin, straight Head B: cable Cable: PVC, unshielded, 2 m	DOL-0803-G02M	6010785
	Head A: female connector, M8, 3-pin, straight Head B: cable Cable: PVC, unshielded, 5 m	DOL-0803-G05M	6022009
	Head A: female connector, M8, 3-pin, angled Head B: cable Cable: PVC, unshielded, 2 m	DOL-0803-W02M	6008489
	Head A: female connector, M8, 3-pin, angled Head B: cable Cable: PVC, unshielded, 5 m	DOL-0803-W05M	6022010
	Head A: female connector, M8, 3-pin, straight Head B: - Cable: unshielded	DOS-0803-G	7902077
	Head A: female connector, M8, 3-pin, angled Head B: - Cable: unshielded	DOS-0803-W	7902078

Australia

Phone +61 3 9457 0600
1800 33 48 02 – tollfree
E-Mail sales@sick.com.au

Belgium/Luxembourg

Phone +32 (0)2 466 55 66
E-Mail info@sick.be

Brasil

Phone +55 11 3215-4900
E-Mail marketing@sick.com.br

Canada

Phone +1 905 771 14 44
E-Mail information@sick.com

Česká republika

Phone +420 2 57 91 18 50
E-Mail sick@sick.cz

China

Phone +86 4000 121 000
E-Mail info.china@sick.net.cn
Phone +852-2153 6300
E-Mail ghk@sick.com.hk

Danmark

Phone +45 45 82 64 00
E-Mail sick@sick.dk

Deutschland

Phone +49 211 5301-301
E-Mail info@sick.de

España

Phone +34 93 480 31 00
E-Mail info@sick.es

France

Phone +33 1 64 62 35 00
E-Mail info@sick.fr

Great Britain

Phone +44 (0)1727 831121
E-Mail info@sick.co.uk

India

Phone +91-22-4033 8333
E-Mail info@sick-india.com

Israel

Phone +972-4-6801000
E-Mail info@sick-sensors.com

Italia

Phone +39 02 27 43 41
E-Mail info@sick.it

Japan

Phone +81 (0)3 5309 2112
E-Mail support@sick.jp

Magyarország

Phone +36 1 371 2680
E-Mail office@sick.hu

Nederland

Phone +31 (0)30 229 25 44
E-Mail info@sick.nl

Norge

Phone +47 67 81 50 00
E-Mail sick@sick.no

Österreich

Phone +43 (0)22 36 62 28 8-0
E-Mail office@sick.at

Polska

Phone +48 22 837 40 50
E-Mail info@sick.pl

România

Phone +40 356 171 120
E-Mail office@sick.ro

Russia

Phone +7-495-775-05-30
E-Mail info@sick.ru

Schweiz

Phone +41 41 619 29 39
E-Mail contact@sick.ch

Singapore

Phone +65 6744 3732
E-Mail sales.gsg@sick.com

Slovenija

Phone +386 (0)1-47 69 990
E-Mail office@sick.si

South Africa

Phone +27 11 472 3733
E-Mail info@sickautomation.co.za

South Korea

Phone +82 2 786 6321/4
E-Mail info@sickkorea.net

Suomi

Phone +358-9-25 15 800
E-Mail sick@sick.fi

Sverige

Phone +46 10 110 10 00
E-Mail info@sick.se

Taiwan

Phone +886-2-2375-6288
E-Mail sales@sick.com.tw

Türkiye

Phone +90 (216) 528 50 00
E-Mail info@sick.com.tr

United Arab Emirates

Phone +971 (0) 4 8865 878
E-Mail info@sick.ae

USA/México

Phone +1(952) 941-6780
1 800-325-7425 – tollfree
E-Mail info@sickusa.com

More representatives and agencies
at www.sick.com