

CQF16-06ENSEW1

CAPACITIVE PROXIMITY SENSORS





Illustration may differ



Ordering information

Туре	Part no.
CQF16-06ENSEW1	6068626

Included in delivery: BEF-WMCQF16 (1)

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

Detailed technical data

Features

Housing	Rectangular
Dimensions (W x H x D)	16 mm x 34 mm x 8 mm
Sensing range S _n	0.5 mm 6 mm
Installation type	Flush Non-flush
Switching frequency	10 Hz
Connection type	Cable, 4-wire, 2 m ¹⁾
Switching output	NPN
Output function	NO
Electrical wiring	DC 4-wire
Adjustment	
Wire/pin	Teach-in (full or empty)
Enclosure rating	IP67, IP68, IP69K
Special features	Detection of water-based liquids with conductivity up to 50 mS/cm; container diameter: min. 8 mm; container thickness: $0.5 \text{ mm} \dots 6 \text{ mm}$ (plastic), $0.5 \text{ mm} \dots 4 \text{ mm}$ (glass)
Items supplied	Mounting bracket (1x)

 $^{^{1)}}$ Do not bend below 0 °C.

Mechanics/electronics

Supply voltage	10 V 30 V
Ripple	≤ 10 %

 $^{^{1)}}$ At I $_{\rm a}$ max.

²⁾ Without load.

Voltage drop	\leq 1.5 V DC $^{1)}$
Current consumption	13 mA ²⁾
Time delay before availability	≤ 300 ms
Temperature drift (of S _r)	± 20 %
EMC	EN 60947-5-2
Continuous current I _a	≤ 100 mA
Cable material	PVC
Conductor size	0.14 mm ²
Short-circuit protection	✓
Power-up pulse protection	✓
Shock and vibration resistance	30 g, 11 ms / 6 pos., 6 neg. per axis, 10 150 Hz, 1.0 mm / 15 g
Ambient operating temperature	-25 °C +80 °C
Ambient temperature, storage	-40 °C +85 °C
Housing material	Plastic, PBT
Tightening torque, max.	0.2 Nm
Protection class	III
UL File No.	NRKH.E191603

¹⁾ At I_a max.

Safety-related parameters

MTF_D	1,972 years
DC _{avg}	0 %
T _M (mission time)	20 years

Installation note

Remark	Associated graphic see "Installation"
Α	≥ 10 mm (at factory setting)
В	16 mm
F	≥ 25 mm (at factory setting)

Classifications

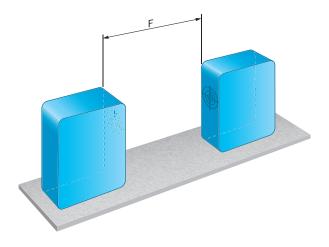
ECLASS 5.0	27270102
ECLASS 5.1.4	27270102
ECLASS 6.0	27270102
ECLASS 6.2	27270102
ECLASS 7.0	27270102
ECLASS 8.0	27270102
ECLASS 8.1	27270102
ECLASS 9.0	27270102
ECLASS 10.0	27270102
ECLASS 11.0	27270102
ECLASS 12.0	27274201

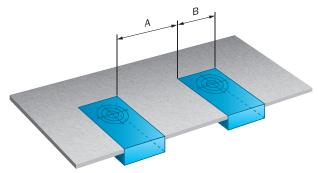
²⁾ Without load.

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ETIM 5.0	EC002715
ETIM 6.0	EC002715
ETIM 7.0	EC002715
ETIM 8.0	EC002715
UNSPSC 16.0901	39122230

Installation note



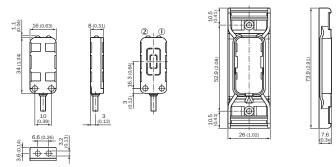


Connection diagram

Cd-023

Dimensional drawing (Dimensions in mm (inch))

Sensor with bracket (included in the scope of delivery)



- ${ \textcircled{\scriptsize 1}}$ Yellow LED indicator: Switching output
- ② LED indicator green: Supply voltage active

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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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