

CQF16-06ENSEW1

CAPACITIVE PROXIMITY SENSORS





Ordering information

Туре	Part no.
CQF16-06ENSEW1	6068626

Included in delivery: BEF-WMCQF16 (1)

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

Illustration may differ



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	Teach-in by wire (full or empty)
Enclosure rating	IP67, IP68, IP69K
Special features	Detection of water-based liquids up to a conductivity of 50 mS/cm

 $^{^{1)}}$ Do not bend below 0 °C.

Mechanics/electronics

Supply voltage	10 V 30 V
Ripple	≤ 10 %
Voltage drop	≤ 1.5 V DC ¹⁾
Current consumption	13 mA ²⁾

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

²⁾ Without load.

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	√
Reverse polarity 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
Items supplied	Mounting bracket (1x)
Protection class	III
UL File No.	NRKH.E191603

¹⁾ At I_a max.

Safety-related parameters

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

Classifications

ECI@ss 5.0	27270102
ECI@ss 5.1.4	27270102
ECI@ss 6.0	27270102
ECI@ss 6.2	27270102
ECI@ss 7.0	27270102
ECI@ss 8.0	27270102
ECI@ss 8.1	27270102
ECI@ss 9.0	27270102
ECI@ss 10.0	27270102
ECI@ss 11.0	27270102
ETIM 5.0	EC002715
ETIM 6.0	EC002715
ETIM 7.0	EC002715
ETIM 8.0	EC002715
UNSPSC 16.0901	39122230

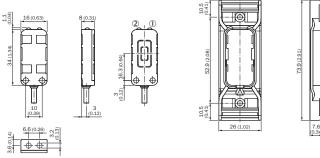
²⁾ Without load.

Connection diagram

Cd-023

Dimensional drawing (Dimensions in mm (inch))

Sensor with bracket (included in the scope of delivery)



- ① Yellow LED indicator: Switching output
- ② LED indicator green: Supply voltage active

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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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