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DATA SHEET

LFC-XXSGTE

LFC
Level sensors

SICK Sensor Intelligence



LEVEL SENSORS

LFC-XXSGTE

ORDERING INFORMATION

Type	part no.
LFC-XXSGTE	6086409

Further device versions and accessories at www.sick.com/LFC

DETAILED TECHNICAL DATA

FEATURES

Medium	Fluids
Measurement	Switch
Process pressure	–1 bar ... 64 bar
Process temperature	–20 °C ... +100 °C [1]

[1] +135 °C for max. 1 h.

PERFORMANCE

Reproducibility	± 1 mm
Response time	500 ms
Dielectricity constant	≥ 2
MTBF	7,3*10^6 h

ELECTRONICS

Communication interface	IO-Link
Supply voltage	12 V DC ... 35 V DC [1]
Residual ripple	≤ 5 V_{pp}
Power consumption	≤ 10 mA
Protection class	III
Connection type	M12 round connector x 1, 4-pin
Output signal	2 x PNP/NPN, IO-Link
Power consumption	≤ 0.1 W
Contamination rating	4
Inductive load	≤ 0.5 H

[1] All connections are polarity protected. All outputs are overload and short-circuit protected.

[2] NEMA type 6P.

Capacitive load	100 nF
Enclosure rating	IP66 IP67 IP69 [2]
Overvoltage category	I
Load current	≤ 250 mA (Output permanently short-circuit proof)
Voltage drop	< 3 V
Switching voltage	< 34 V DC
Reverse current	< 10 µA
EMC	EN 61326-1

[1] All connections are polarity protected. All outputs are overload and short-circuit protected.

[2] NEMA type 6P.

MECHANICS

Wetted parts	PEEK [1]
Process connection	G ½ A, ISO0228-1, for hygienic thread adapter / 316L (RA < 0.76 µm)
Housing material	Stainless steel 1.4404 / 316L
Sealing material	NBR (male connector)

[1] Sensor tip PEEK, polished.

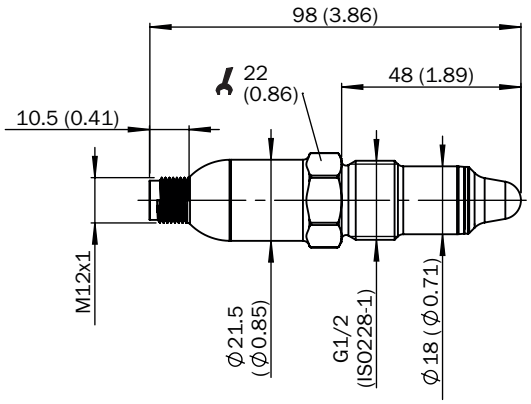
AMBIENT DATA

Ambient operating temperature	–40 °C ... +70 °C
Ambient temperature, storage	–40 °C ... +80 °C

CERTIFICATES

EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
China Compulsory Product Certification (CCC) exempt	✓
FDA certificate	✓
EHEDG approval	✓
cULus certificate	✓
cCSAus certificate	✓
IO-Link certificate	✓
Food contact material manufacturer declaration	✓
Information according to Art. 3 of Data Act (Regulation EU 2023/2854)	✓

PROCESS CONNECTION G ½, UNIT: MM (INCH), DECIMAL SEPARATOR: PERIOD



Dimensions in mm (inch)

Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/6086409

SICK AG
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SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

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