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DATA SHEET

LFV330-XXGAVTMC0310

LFV300
Level sensors

SICK Sensor Intelligence



Illustration may differ

LEVEL SENSORS

LFV330-XXGAVTMC0310

ORDERING INFORMATION

Type	part no.
LFV330-XXGAVTMC0310	6071506

Further device versions and accessories at www.sick.com/LFV300

DETAILED TECHNICAL DATA

FEATURES

Measurement	Switch
Probe type	Tuning fork
Probe length	310 mm
Process pressure	–1 bar ... 64 bar
Process temperature	–50 °C ... +250 °C
Fill material density	0.5 g/cm³ ... 2.5 g/cm³

PERFORMANCE

Accuracy of sensor element	± 2 mm
Reproducibility	≤ 1 mm
Viscosity	0.1 mPas ... 10,000 mPas
Response time	500 ms
MTBF	9,73*10^6 h

ELECTRONICS

Communication interface	-
Supply voltage	20 V AC/DC ... 253 V AC/DC
Power consumption	< 4.2 mA
Initialization time	< 3 s
VDE protection class 1	✓
VDE protection class 2	✓
Connection type	M20 x 1.5
Output signal	Non-contact switch
Electronics	Non-contact switch
Hysteresis	2 mm

Output current	< 400 mA
Inductive load	≤ 1 H
Capacitive load	100 nF
Enclosure rating	IP66 / IP67
Temperature drift	0.03 mm/K

MECHANICS

Wetted parts	Stainless steel 316L (optional Ra ≤ 0.8 µm)
Process connection	G 1 A PN 64
Sensor material	Stainless steel 1.4404

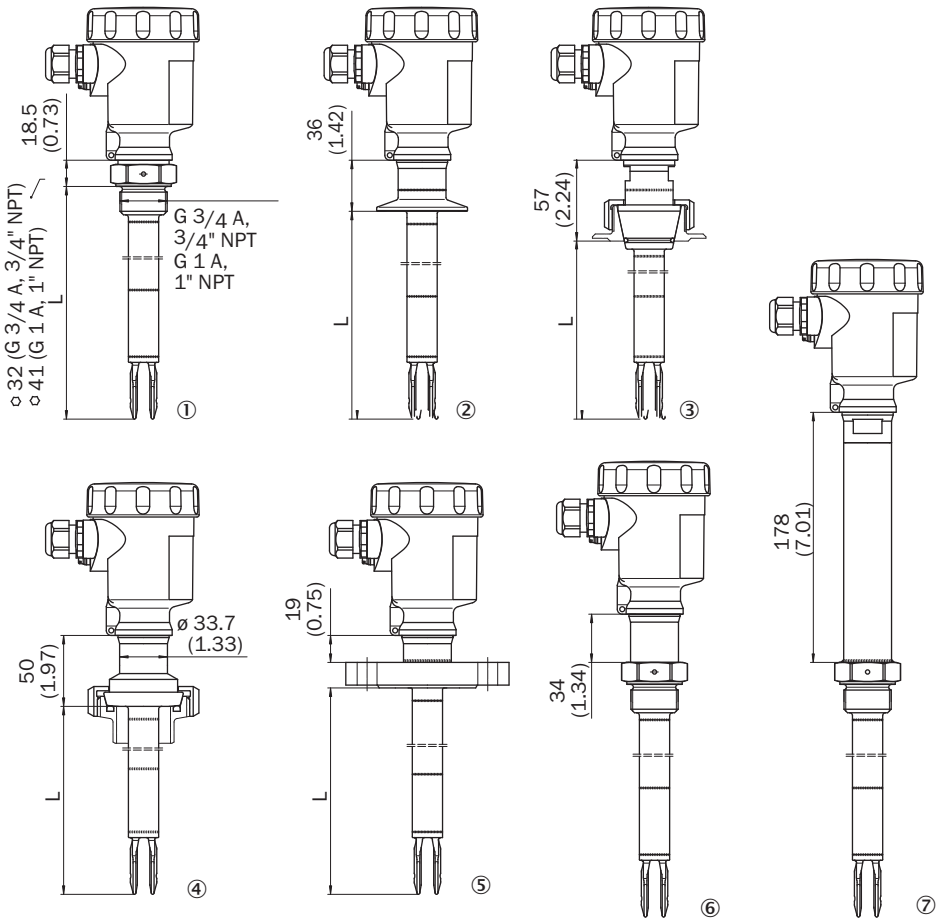
AMBIENT DATA

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

CERTIFICATES

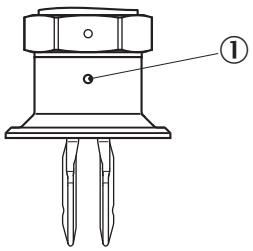
EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
China RoHS	✓

DIMENSIONAL DRAWING LFV330



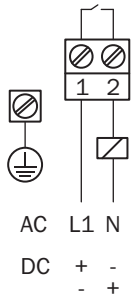
Dimensions in mm (inch)
① Thread
② Tri-Clamp
③ DN 25 cone
④ Bolting D 40
⑤ Flange
⑥ Gas-tight leadthrough
⑦ Temperature adapter

DIMENSIONAL DRAWING MARKING ON THE WELDED FLANGE

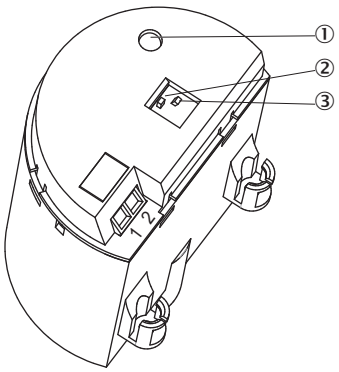


Dimensions in mm (inch)
① Marking

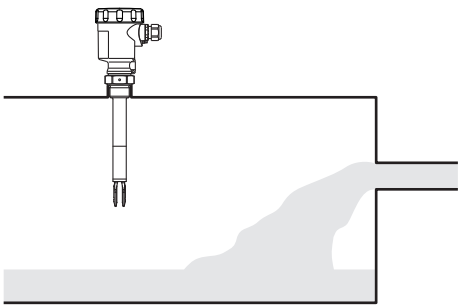
CONNECTION DIAGRAM CONTACTLESS ELECTRONIC SWITCH CONNECTION DIAGRAM



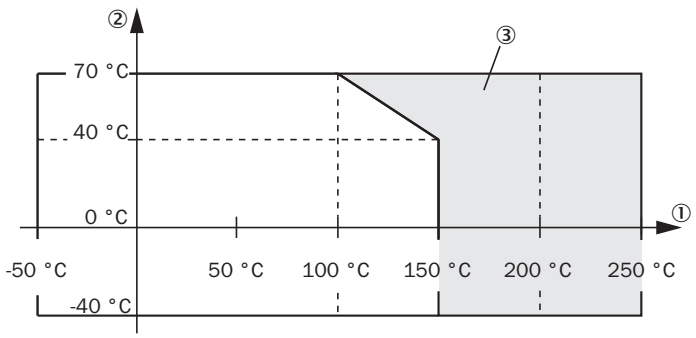
CONNECTION TYPE LFV300 CONTACTLESS ELECTRONIC SWITCH - ELECTRONIC MODULE



INSTRUCTION FOR INSTALLATION INFLOWING MEDIUM



CHARACTERISTIC CURVE AMBIENT TEMPERATURE - PROCESS TEMPERATURE



① Process temperature in °C (°F)
② Ambient temperature in °C (°F)
③ Temperature range with temperature adapter

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/6071506

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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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