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DATA SHEET

LFV230-XXSGBTPM0500

LFV200
Level sensors

SICK
Sensor Intelligence



Illustration may differ

LEVEL SENSORS

LFV230-XXSGBTPM0500

ORDERING INFORMATION

Type	part no.
LFV230-XXSGBTPM0500	6041682

Further device versions and accessories at www.sick.com/LFV200

DETAILED TECHNICAL DATA

FEATURES

Medium	Fluids
Measurement	Switch
Probe type	Tuning fork
Probe length	500 mm
Process pressure	–1 bar ... 64 bar
Process temperature	–40 °C ... +100 °C
Fill material density	0.7 g/cm³ ... 2.5 g/cm³

PERFORMANCE

Accuracy of sensor element	± 2 mm
Reproducibility	≤ 1 mm
Viscosity	0.1 mPas ... 10,000 mPas
Resolution	≤ 1 mm
Response time	500 ms
MTBF	1,25*10^7 h

ELECTRONICS

Communication interface	-
Supply voltage	9.6 V DC ... 35 V DC
Residual ripple	≤ 5 V_{pp}
Power consumption	≤ 10 mA
Initialization time	< 2 s
Connection type	M12 round connector x 1, 4-pin
Output signal	Transistor output PNP
Hysteresis	2 mm
Output current	< 250 mA

Inductive load	≤ 1 H
Capacitive load	100 nF
Enclosure rating	IP67
Temperature drift	0.03 mm/K

MECHANICS

Wetted parts	Stainless steel 1.4404 / 316L
Process connection	G ¾ A PN 64

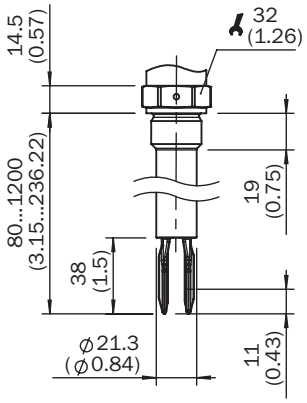
AMBIENT DATA

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

CERTIFICATES

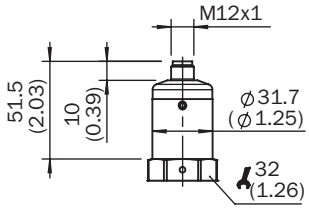
EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
China RoHS	✓
China Compulsory Product Certification (CCC) exempt	✓

DIMENSIONAL DRAWING PROCESS CONNECTION



Dimensions in mm (inch)

DIMENSIONAL DRAWING HOUSING



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/6041682

SICK AG
WALDKIRCH
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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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