



LFV200-XAHCLTPML

LFV200

LEVEL SENSORS

SICK
Sensor Intelligence.



Ordering information

Type	Part no.
LFV200-XAHCLTPML	6050781

Other models and accessories → www.sick.com/LFV200

Illustration may differ



Detailed technical data

Features

Medium	Fluids
Measurement	Switch
Probe length	117 mm
Process pressure	-1 bar ... 64 bar
Process temperature	-40 °C ... +150 °C
Fill material density	0.7 g/cm³ ... 2.5 g/cm³
WHG approval	✓
Authorizations	WHG approval
EHEDG approval	✓

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	1,3*10 ⁷ h

Electronics

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

Signal voltage HIGH	Vs -3 V
Signal voltage LOW	0 V +- 1 V
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 (Ra ≤ 0,8 µm)
Process connection	Triclamp 1" (PN 16, 316L, Ra<0.8µm)
Housing material	Stainless steel 1.4404, PEI

Ambient data

Ambient operating temperature	-40 °C ... +70 °C
Ambient storage temperature	-40 °C ... +80 °C

Classifications

ECI@ss 5.0	27273202
ECI@ss 5.1.4	27273202
ECI@ss 6.0	27273202
ECI@ss 6.2	27273202
ECI@ss 7.0	27273202
ECI@ss 8.0	27273202
ECI@ss 8.1	27273202
ECI@ss 9.0	27273202
ECI@ss 10.0	27273202
ECI@ss 11.0	27273202
ETIM 5.0	EC002654
ETIM 6.0	EC002654
ETIM 7.0	EC002654
UNSPSC 16.0901	41111938

Type code

LFV200 type code

Certification	
XX	without
XA	Overfill protection in acc. with WHG (German Federal Water Act)
Execution / Process temperature	
S	Standard / -40 °C ... +100 °C
T	Expanded / -40 °C ... +150 °C
H	Hygiene applications / -40 °C ... +150 °C
Process connection / Material	
GH	G ½, DIN3852-A, PN 64 / 316L
NH	½" NPT, ASME B1.20.1, PN 64 / 316L
GB	G ¾ A, PN 64 / 316L
NB	¾" NPT, PN 64 / 316L

Electronics

Housing

Electrical connection / Enclosure rating

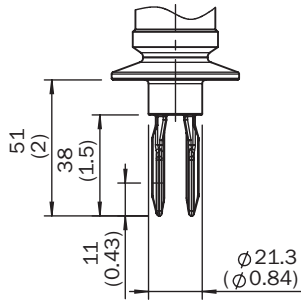
Measuring point identification plate

LFV200 -					P		
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Dimensional drawing (Dimensions in mm (inch))

Technical drawing of a 1/2" NPT x 1" NPT female adapter. The drawing shows a vertical view of the adapter with dimensions in inches and millimeters. Key dimensions include: total length 110 (4.33), thread length 10 (0.39), outer diameter of the upper section 31.7 (1.25), outer diameter of the lower section 21.3 (0.84), and a central hole diameter of 11 (0.43). The top thread is M12x1.

Dimensional drawing process connection



Recommended accessories

Other models and accessories → www.sick.com/LFV200

	Brief description	Type	Part no.
Flanges			
	Welded flange/welded connector, DIN11851-1, DN25 / PN40, Stainless steel 1.4404	BEF-FL-851D25-LFV2	5321527
	Welded flange/welded connector DIN11851-1, DN40 / PN40, Stainless steel 1.4404	BEF-FL-851D40-LFV2	5321459
	Welded flange/welded connector DIN11851-1, DN50 / PN25, Stainless steel 1.4404	BEF-FL-851D50-LFV2	5321528
	Welded flange/welded connector, process connection G 1, Stainless steel 1.4404	BEF-FL-GEWG10-LFV2	4054605
	Welded flange/welded connector, G 3/4 process connection, Stainless steel 1.4404	BEF-FL-GEWG34-LFV2	4054604
	Welded flange/welded connector, process connection Tri-Clamp 1", Stainless steel 1.4404	BEF-FL-TCLI10-LFV2	5321678
	Welded flange/welded connector, process connection Tri-Clamp 2", Stainless steel 1.4404	BEF-FL-TCLI20-LFV2	5321679

SICK AT A GLANCE

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.”

WORLDWIDE PRESENCE:

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