

LFV310-DANBVXURX

LFV300

LEVEL SENSORS





Ordering information

Туре	Part no.
LFV310-DANBVXURX	6052904

Other models and accessories → www.sick.com/LFV300

Illustration may differ





Detailed technical data

Features

Medium	Fluids
Measurement	Switch
Probe length	66 mm
Process pressure	-1 bar 64 bar
Process temperature	-50 °C +150 °C
Fill material density	0.5 g/cm ³ 2.5 g/cm ³
ATEX approval	ATEX II 1/2G, 2G Ex d IIC T6
Type examination	TÜV 09 ATEX 372527 X
GOST approval	√
WHG approval	✓

Performance

Accuracy of sensor element	± 2 mm
Repeatability	≤ 1 mm
Viscosity	0.1 mPas 10,000 mPas
Response time	500 ms

Electronics

Power consumption	5 mA 30 mA
Initialization time	< 2 s
VDE protection class 1	✓
Electrical connection	1⁄2" NPT
Supply voltage	Double relay (DPDT): 20 V DC 72 V DC / 20 V AC 253 V AC
Hysteresis	2 mm
Output current	> 10 µA; < 3A AC, 1A DC
Inductive load	750 VA 54 W
Capacitive load	750 VA 54 W

Contact load	Min. 50 mW / max. 750 VA, 54 W
Enclosure rating	IP 66 / IP 67
Temperature drift	0,03 mm/K

Mechanics

Wetted parts	Stainless steel 316L (optional Ra ≤ 0.8 µm)	
Process connection	³ ⁄ ₄ " NPT PN 64	
Housing material	Aluminum	
Sensor material	Stainless steel 1.4404	

Ambient data

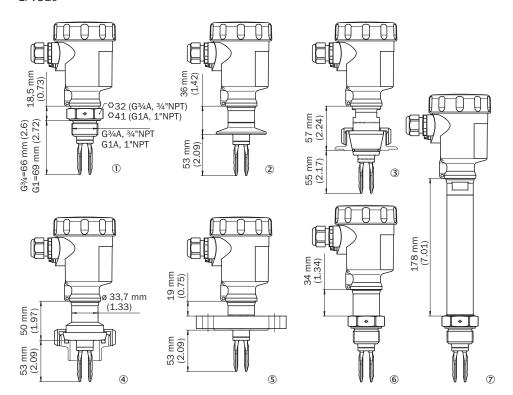
Ambient operating temperature	-40 °C +70 °C
Ambient storage temperature	-40 °C +80 °C

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
ETIM 5.0	EC002654
ETIM 6.0	EC002654
UNSPSC 16.0901	41111938

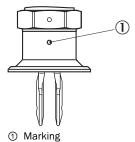
Dimensional drawing (Dimensions in mm (inch))

LFV310



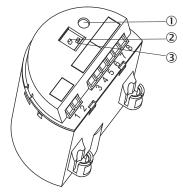
- ① Thread
- ② Tri-Clamp
- ③ DN 25 cone
- ④ Bolting D 40
- ⑤ Flange
- 6 Gas-tight leadthrough
- ⑦ Temperature adapter

Marking on the welded flange



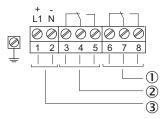
Connection diagram

Relay - electronic module



- ① Signal lamp (LED)
- ② DIL switch for mode adjustment
- ③ DIL-switch for sensitivity adjustment

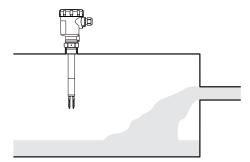
Relay connection diagram (single chamber housing)



- ① Relay output
- ② Relay output
- 3 Supply voltage

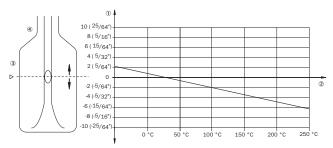
Instruction for installation

Inflowing medium



Characteristic curve

Influence of the process temperature on the switching point



- ① Shifting of the switching point in mm (in)
- ② Process temperature in °C (°F)
- ③ Switching point at reference conditions (notch)④ Tuning fork

Recommended accessories

Other models and accessories → www.sick.com/LFV300

	Brief description	Туре	Part no.
Flanges			
	Welded flange/welded connector, DIN11851-1, DN25 / PN40, Stainless steel 1.4404	BEF-FL-851D25-LFV2	5321527
	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
Mounting brackets and mounting plates			
	Lock nut fitting, process pressure –1 bar to 64 bar, G 1 A process connection, G 3/4 A female thread, stainless steel 316L	BEF- MU-316G10-ALFV	5322463
Electronic modules			
in the	Double relay (DPDT): 20 V DC 72 V DC / 20 250 V AC	ECD-RE- LFVREL-0001	6038671

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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."

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