



LFV330-CANBVXUN0500

LFV300

LEVEL SENSORS

SICK
Sensor Intelligence.



Illustration may differ



Ordering information

Type	Part no.
LFV330-CANBVXUN0500	6055323

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

Detailed technical data

Features

Medium	Fluids
Measurement	Switch
Probe length	500 mm
Process pressure	-1 bar ... 64 bar
Process temperature	-50 °C ... +150 °C, See safety notes for ATEX devices
Fill material density	0.5 g/cm³ ... 2.5 g/cm³
ATEX approval	ATEX II 1G, 1/2G, 2G Ex ia IIC T6 Ga, Ga/Gb, Gb +WHG
Type examination	PTB 16 ATEX 2008 X
WHG approval	✓

Performance

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

Electronics

Residual ripple	≤ 5 V _{pp}
Power consumption	1 mA / 2,5 mA
Initialization time	< 2 s
VDE protection class 2	✓
Connection type	½" NPT
Output signal	NAMUR signal
Supply voltage	NAMUR signal: 4.5 V DC ... 12 V DC
Hysteresis	2 mm
Output current	1 mA / 2,5 mA
Enclosure rating	IP66 / IP67
Temperature drift	0,03 mm/K

Mechanics

Wetted parts	Stainless steel 316L (optional Ra ≤ 0.8 µm)
Process connection	¾" 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
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

LFV330 type code

Certification

XX	Without approval
XA	WHG approval
CA	ATEX II 1G, 1/2G, 2G Ex ia IIC T6 Ga, Ga/Gb, Gb +WHG
DA	ATEX II 1/2G Ex db IIC T6...T2 Ga/Gb +WHG

Process connection/Material (see below)

Middle section / Process temperature

X	without / -50 °C ... +150 °C
T	with / -50 °C ... +250 °C

Housing / Cable screw connection

P	Plastics IP 66, IP 67 / M20 x 1,5
N	Plastics IP 66, IP 67 / ½" NPT
M	Aluminium IP 66, IP 67 / M20 x 1,5
U	Aluminium IP 66, IP 67 / ½" NPT
V	Stainless steel (precision casting) 316L IP66, IP67 / M20 x 1,5
A	Stainless steel (precision casting) 316L IP 66, IP 67 ½" NPT
8	Stainless steel (electro buffed) 316L IP 66, IP 67 / M20 x 1,5
9	Stainless steel (electro buffed) 316L IP 66, IP 67 / ½" NPT

Electronics

C	Contactless switch 20...253VAC(DC)
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Not all variations of the type code can be combined! Not all available variations are shown.

Process connection/Material

GBV	Thread G 3/4 A PN 64 / 316L	PLV	Flange DN 125, PN 40 Form N, DIN 2501 / 316L
GBP	Thread G 3/4 A PN 64 / 316L Ra<0,8µm	FMV	Flange DN 150, PN 16 Form C, DIN 2501 / 316L
NBV	Thread 3/4" NPT PN 64 / 316L	MMV	Flange DN 150, PN 16 Form D, DIN 2501 / 316L
NBP	Thread 3/4" NPT PN 64 / 316L Ra<0,8µm	FVV	Flange DN 150, PN 40 Form C, DIN 2501 / 316L
GAV	Thread G 1 A PN 64 / 316L	OVV	Flange DN 150, PN 40 Form F, DIN 2501 / 316L
GAP	Thread G 1 A PN 64 / 316L Ra<0,8µm	PVV	Flange DN 150, PN 40 Form N, DIN 2501 / 316L
NAV	Thread 1" NPT PN 64 / 316L	FQV	Flange DN 200, PN 16 Form C, DIN 2501 / 316L
NAP	Thread 1" NPT PN 64 / 316L Ra<0,8µm	F5V	Flange DN 250, PN 10 Form C, DIN 2501 / 316L
GCV	Thread G 1 1/2 A PN 64 / 316L	UCV	Flange DN 40, PN 40 V13, DIN 2501 / 316L
NCV	Thread 1 1/2" NPT PN 64 / 316L	FEV	Flange DN 50, PN 40 Form C, DIN 2501 / 316L
TAP	Varivent N50-40 / 316L Ra<0,8µm ZB3052	RCP	Fitting DN 32, PN 40, DIN 11851 / 316L Ra<0,8µm
TNP	Varivent N25-100 / 316L Ra<0,8µm ZB3052	REP	Fitting DN 25, PN 40, DIN 11851 / 316L Ra<0,8µm
CCP	Tri-Clamp 1" PN 16 / 316L Ra<0,8µm	RAP	Fitting DN 40, PN 40, DIN 11851 / 316L Ra<0,8µm
CBP	Tri-Clamp 1 1/2" PN 16 / 316L Ra<0,8µm	RFP	Fitting DN 40, PN 40, DIN 11864-1A / 316L Ra<0,8µm ZB3052
CAP	Tri-Clamp 2" PN 16 / 316L Ra<0,8µm	RBP	Fitting DN 50, PN 25, DIN 11851 / 316L Ra<0,8µm
CDP	Tri-Clamp 2 1/2" PN 10 / 316L Ra<0,8µm	RDP	Fitting DN 50, PN 25, DIN 11864-1A / 316L Ra<0,8µm ZB3052
CEP	Tri-Clamp 3" PN 10 / 316L Ra<0,8µm		

Dimensional drawing (Dimensions in mm (inch))

LFV330



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

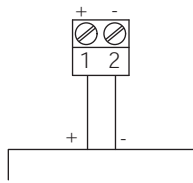
Marking on the welded flange



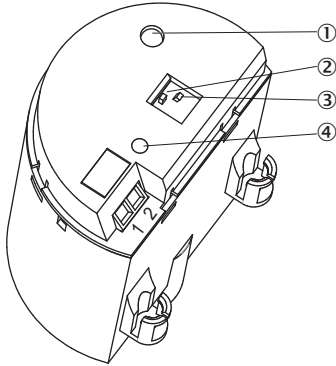
- ① Marking

Connection diagram

Namur connection diagram



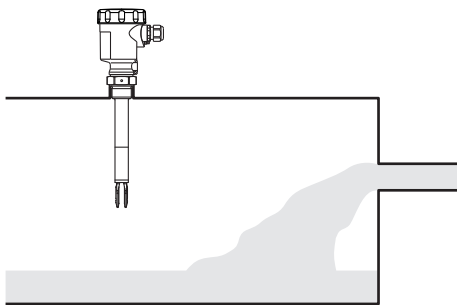
Namur - electronic module



- ① Signal lamp (LED)
- ② DIL switch for characteristics reversal
- ③ DIL-switch for sensitivity adjustment
- ④ Simulation key

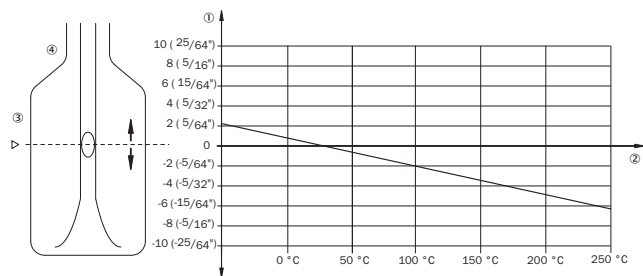
Instruction for installation

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	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, 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 plates			
	BEF-MU-316G10-ALFV	BEF-MU-316G10-ALFV	5322463
Electronic modules			
	Namur signal: 4.5 V DC ... 12 V DC	ECD-RE-LFV-NAM-0001	6038670

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:

Contacts and other locations –www.sick.com