Product data sheet

LFV200-XXHCLTPV

LFV200

LEVEL SENSORS

SICK
Sensor Intelligence.

Illustration may differ

Ordering information

Type	Part no.
LFV200-XXHCLTPV	6039773

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

Detailed technical data

Features

Medium	Fluids
Measurement	Switch
Probe length	67 mm
Process pressure	–1 bar ... 64 bar
Process temperature	–40 °C ... +150 °C
Fill material density	0.7 g/cm³ ... 2.5 g/cm³
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	Valve plug DIN 43650
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	IP65
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

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

Type code

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
GA	G 1 A, PN 64 / 316L
NA	1“ NPT, PN 64 / 316L
CL	Tri-clamp 1“, PN 16, L, Ra < 0.8 µm
CN	Tri-Clamp 2“, PN 16, L, Ra < 0.8 µm

RL	Conical adapter DN 25, DIN 11851 with coupling nut PN 40 / 316L, Ra < 0.8 µm
RM	Conical adapter DN 40, DIN 11851 with coupling nut PN 40 / 316L, Ra < 0.8 µm
RN	Conical adapter DN 50, DIN 11851 with coupling nut PN 40 / 316L, Ra < 0.8 µm
GP	G ¾ A, PN 64 / 316L, Ra < 0.8 µm
NP	¾“ NPT, PN 64 / 316L, Ra < 0.8 µm
Mgmt	G 1 A, PN 64 / 316L, Ra < 0.8 µm
NL	1“ NPT, PN 64 / 316L, Ra < 0.8 µm
CM	Tri-clamp 1 ½“, PN 16, L, Ra < 0.8 µm
RR	SMS DN 38, PN 6, 316L, Ra < 0.8 µm
LA	Aseptic connection with grooved cap nut, F 40, DN 25, 316L, Ra < 0.8 µm
R3	Thread R ¾, PN 64, 316L, EN10226-1

Electronics

C	Contact-free switch, 20 ... 253 V AC/DC
T	PNP transistor output, 9.6 ... 35 V DC
I	PNP transistor output with IO-Link, 18 ... 30 V DC

Housing

P	1.4404

Electrical connection / Enclosure rating

M	M12 x 1 / IP 67
V	DIN 43650 including male connector / IP 65

Measuring point identification plate

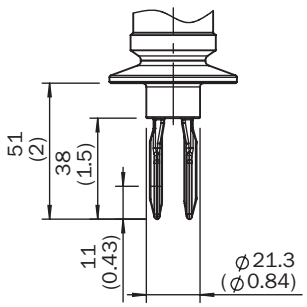
	without
L	Fork length 115 mm

LFV200 -					P		

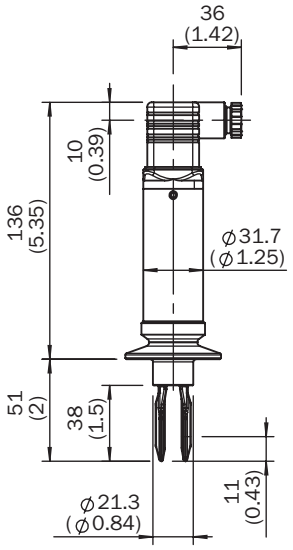
Not all variants of the type code can be combined!

Dimensional drawing (Dimensions in mm (inch))

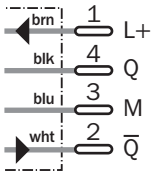
Dimensional drawing process connection



Dimensional drawing



Connection diagram



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.

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F03-16PT-1M FSH-21 FSH-25 FSH-34 FSH-35 FSV-31 FSV-35 LRNH31S41 FSH-31 RSF14Y100RF F03-16PT-10M LL01-1AB01 F03-16PS-F F03-16SF-5M F03-16PE-5M F03-16PT-5M K7L-U LBFS 1151 LL8951T5 SCN-1518SC LL103000 LRNR31N01 K7L-AT50DB F03-16PT-2M 14102 RSF107H100GV MS03-PP KSL-100-1 LS01-1A66-PP-2000W LS01-1B66-PP-500W LS02-1A66-S-500W LS02-1B66-S-500W LS02-1B85-PP-5000W LS03-1A85-PP-500W LS03/DL-1A85-PA-500W RSF26H050TG EL-10N EL-3N LL01-1AA01 LRNH31S42 MS10C SSH66XE34N100 SSH66TE34N100S TSF76H100DN TSF76H050TV OLS500D3L RSF88Y100R RSF76Y100RN RSF54Y100RC RSF53Y100RC