



LFV200-XXSNHIPM

LFV200

LEVEL SENSORS

SICK
Sensor Intelligence.



Illustration may differ



Ordering information

Type	Part no.
LFV200-XXSNHIPM	6048863

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 ... +100 °C
Fill material density	0.7 g/cm³ ... 2.5 g/cm³
IO-Link	✓

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	18 V DC ... 30 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 with IO-Link
Hysteresis	2 mm
Signal voltage HIGH	V _s - 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
Process connection	½" NPT PN 64
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
GA	G 1 A, PN 64 / 316L
NA	1" 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 17mm spark plug. The drawing shows the plug with its hexagonal base and two electrodes. Dimensions are provided in millimeters (mm) and inches (in). The overall height is 17 mm (0.67 in). The hexagonal base has a width of 17 mm (0.67 in). The distance from the base to the tip of the electrodes is 62 mm (2.44 in). The distance from the base to the start of the electrode tip is 38 mm (1.5 in). The distance from the base to the start of the electrode tip is 11 mm (0.43 in). The diameter of the electrode tip is 17 mm (0.67 in). A dimension of 32 mm (1.26 in) is shown for the distance from the base to the tip of the electrode.

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-TCL110-LFV2	5321678
	Welded flange/welded connector, process connection Tri-Clamp 2", Stainless steel 1.4404	BEF-FL-TCL120-LFV2	5321679
Fieldbus modules			
	Number of IO-Link ports: 4; Communication mode: COM1/COM2; IO-Link version: IO-Link V1.0; Switching input: PNP; Supply voltage Vs, IO-Link ports: DC 24 V; Current loading: 800 mA; Data transmission rate: Max. 12 MBaud, Autobaud; Address space occupation: 1 bis 126; Connection type: Connector M12; Connection type, IO-Link ports: Connector M12, 5-pin; Supply voltage Vs, module: DC 18 ... 30 V; Power consumption: Typ. 75 mA / max. 100 mA (at UL with DC 24 V), Typ. 25 mA + sensor current / max. 80	IOLSHPB-P3104R01	6039728

Recommended services

Additional services → www.sick.com/LFV200

	Type	Part no.
Function Block Factory		
Description: The Function Block Factory supports common programmable logic controllers (PLCs) from various manufacturers, such as Siemens, Beckhoff, Rockwell Automation and B&R. More information on the FBF can be found here.	Function Block Factory	On request

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