



# LFV230-XXHCLTPM0100

LFV200

**LEVEL SENSORS**

**SICK**  
Sensor Intelligence.



Illustration may differ



### Ordering information

Type	Part no.
LFV230-XXHCLTPM0100	6054701

Other models and accessories → [www.sick.com/LFV200](http://www.sick.com/LFV200)

### Detailed technical data

#### Features

<b>Medium</b>	Fluids
<b>Measurement</b>	Switch
<b>Probe length</b>	100 mm
<b>Process pressure</b>	-1 bar ... 64 bar
<b>Process temperature</b>	-40 °C ... +150 °C
<b>Fill material density</b>	≥ 0.7 g/cm <sup>3</sup>
<b>EHEDG approval</b>	✓

#### Performance

<b>Accuracy of sensor element</b>	± 2 mm
<b>Repeatability</b>	≤ 1 mm
<b>Viscosity</b>	0.1 mPas ... 10,000 mPas
<b>Resolution</b>	≤ 1 mm
<b>Response time</b>	500 ms

#### Electronics

<b>Supply voltage</b>	10 V DC ... 55 V DC
<b>Residual ripple</b>	≤ 5 V <sub>pp</sub>
<b>Power consumption</b>	< 10 mA
<b>Initialization time</b>	< 2 s
<b>VDE protection class 2</b>	✓
<b>Electrical connection</b>	M12 round connector x 1, 4-pin
<b>Hysteresis</b>	2 mm
<b>Signal voltage HIGH</b>	V <sub>s</sub> - 3 V
<b>Signal voltage LOW</b>	0 V ± 1 V
<b>Output current</b>	< 250 mA
<b>Inductive load</b>	≤ 1 H
<b>Capacitive load</b>	100 nF
<b>Enclosure rating</b>	IP 67

<b>Temperature drift</b>	0.03 mm/K
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## Mechanics

<b>Wetted parts</b>	316L (optional Ra < 0.8 µm)
<b>Process connection</b>	Triclamp 1" (PN 16, 316L, Ra<0.8µm)
<b>Housing material</b>	Stainless steel 1.4404, PEI

## Ambient data

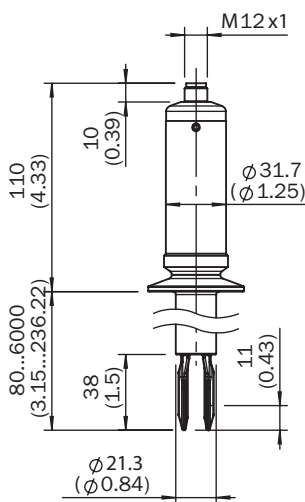
<b>Ambient operating temperature</b>	-40 °C ... +70 °C
<b>Ambient storage temperature</b>	-40 °C ... +80 °C

## Classifications

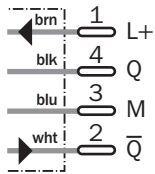
<b>ECI@ss 5.0</b>	27273202
<b>ECI@ss 5.1.4</b>	27273202
<b>ECI@ss 6.0</b>	27273202
<b>ECI@ss 6.2</b>	27273202
<b>ECI@ss 7.0</b>	27273202
<b>ECI@ss 8.0</b>	27273202
<b>ECI@ss 8.1</b>	27273202
<b>ECI@ss 9.0</b>	27273202
<b>ETIM 5.0</b>	EC002654
<b>ETIM 6.0</b>	EC002654
<b>UNSPSC 16.0901</b>	41111938

## Dimensional drawing (Dimensions in mm (inch))

Tri-Clamp 1", 2"











### Connection diagram



### Recommended accessories

Other models and accessories → [www.sick.com/LFV200](http://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-TCL10-LFV2	5321678
	Welded flange/welded connector, process connection Tri-Clamp 2", Stainless steel 1.4404	BEF-FL-TCL20-LFV2	5321679
Plug connectors and cables			
	Head A: female connector, M12, 4-pin, straight Head B: cable Cable: PVC, unshielded, 2 m	DOL-1204-G02M	6009382
	Head A: female connector, M12, 4-pin, straight Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 2 m	DOL-1204-G02MC	6025900
	Head A: female connector, M12, 4-pin, straight Head B: cable Cable: PVC, unshielded, 5 m	DOL-1204-G05M	6009866
	Head A: female connector, M12, 4-pin, straight Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 5 m	DOL-1204-G05MC	6025901
	Head A: female connector, M12, 4-pin, straight Head B: cable Cable: PVC, unshielded, 10 m	DOL-1204-G10M	6010543
	Head A: female connector, M12, 4-pin, straight Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 10 m	DOL-1204-G10MC	6025902

	Brief description	Type	Part no.
	Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 2 m	DOL-1204-W02M	6009383
	Head A: female connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 2 m	DOL-1204-W02MC	6025903
	Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 5 m	DOL-1204-W05M	6009867
	Head A: female connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 5 m	DOL-1204-W05MC	6025904
	Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 10 m	DOL-1204-W10M	6010541
	Head A: female connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 10 m	DOL-1204-W10MC	6025905
	Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 15 m	DOL-1204-W15M	6036474
	Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 20 m	DOL-1204-W20M	6033559

## 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](http://www.sick.com)