

# LFV230-XXSGBIPM0150

LFV200

**LEVEL SENSORS** 





#### Ordering information

Туре	Part no.
LFV230-XXSGBIPM0150	6066412

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

Illustration may differ



#### Detailed technical data

#### **Features**

Medium	Fluids
Measurement	Switch
Probe length	150 mm
Process pressure	-1 bar 64 bar
Process temperature	-40 °C +100 °C
Fill material density	0.7 g/cm <sup>3</sup> 2.5 g/cm <sup>3</sup>
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	1,25*10^7 h

#### Electronics

Communication interface	IO-Link
Supply voltage	18 V DC 30 V DC
Residual ripple	≤ 5 V <sub>pp</sub>
Power consumption	< 10 mA
Initialization time	<2s
VDE protection class 2	✓
Connection type	M12 round connector x 1, 4-pin
Output signal	Transistor output PNP with IO-Link
Hysteresis	2 mm
Output current	< 250 mA

Inductive load	≤1H
Capacitive load	100 nF
Enclosure rating	IP67
Temperature drift	0.03 mm/K

#### Mechanics

Wetted parts	Stainless steel 1.4404
Process connection	G ¾ A PN 64
Housing material	Stainless steel 1.4404, PEI

#### Ambient data

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

#### Classifications

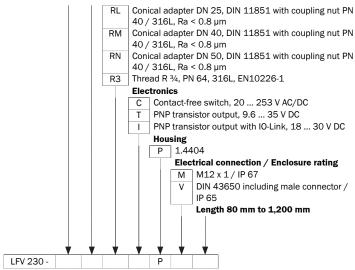
ECLASS 5.0	27273202
ECLASS 5.1.4	27273202
ECLASS 6.0	27273202
ECLASS 6.2	27273202
ECLASS 7.0	27273202
ECLASS 8.0	27273202
ECLASS 8.1	27273202
ECLASS 9.0	27273202
ECLASS 10.0	27273202
ECLASS 11.0	27273202
ECLASS 12.0	27273106
ETIM 5.0	EC002654
ETIM 6.0	EC002654
ETIM 7.0	EC002654
ETIM 8.0	EC002654
UNSPSC 16.0901	41111938

## Type code

## LFV230 type code

#### Certification

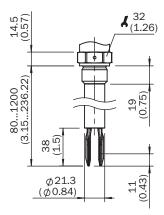
X	Х	without			
Х	Α	Overfill protection in acc. with WHG (German Federal Water Act)			
		Ex	ecution	/ Process temperature	
		S	Stand	dard / -40 °C +100 °C	
		Т	Expa	nded / -40 °C +150 °C	
		Н	Hygie	ne applications / -40 °C +150 °C	
			Proc	ess connection / Material	
		- 1	GB	G ¾ A, PN 64 / 316L	
	NB 3/4" 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			Tri-clamp 2", PN 16, L, Ra < 0.8 µm	



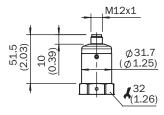
Not all variants of the type code can be combined!

Dimensional drawing (Dimensions in mm (inch))

Dimensional drawing process connection



Dimensional drawing housing



#### Recommended accessories

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

	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 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

#### Recommended services

Additional services → www.sick.com/LFV200

	Туре	Part no.
Function Block Factory		
<ul> <li>Description: The Function Block Factory is an engineering tool for creating device and environment-specific function blocks that enable IO-Link sensors to be integrated into programmable logic controllers. The Function Block Factory supports common programmable logic controllers (PLCs) of various manufacturers such as Siemens, Beckhoff, Rockwell Automation B&amp;R and more. More information on the FBF can be found <a href="https://fbf.cloud.sick.com" target="_blank">here </a>.</li> <li>Provision: Customers can obtain access to the Function Block Factory and the license via <a href="https://fbf.cloud.sick.com" target="_blank">https://fbf.cloud.sick.com</a>.</li> </ul>	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

