

LBV310-XXBGDCAMX

LBV300

LEVEL SENSORS





Ordering information

Туре	Part no.
LBV310-XXBGDCAMX	6038053

Other models and accessories → www.sick.com/LBV300

Illustration may differ



Detailed technical data

Features

Medium	Bulk solids
Measurement	Switch
Probe length	220 mm
Process pressure	-1 bar 25 bar
Process temperature	−50 °C +250 °C
Fill material density	≥ 0.008
Particle size	< 10 mm

Performance

Accuracy of sensor element	± 10 mm
Repeatability	≤ 5 mm
Response time	500 ms when covered / 1,000 ms when uncovered

Electronics

Power consumption	< 4.2 mA
Initialization time	<3s
VDE protection class 1	√
Electrical connection	M20 x 1.5
Supply voltage	Non-contact switch: 20 V AC/DC 253 V DC
Hysteresis	10 mm
Output current	< 400 mA
Inductive load	≤1H
Capacitive load	100 nF
Enclosure rating	IP 66 / IP 67

Mechanics

Process connection	G 1½ A PN 25
Housing material	Aluminum
Sensor material	Stainless steel 1.4404

Ambient data

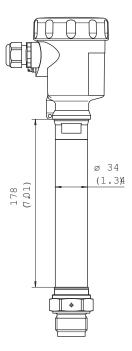
Ambient operating temperature	-40 °C +80 °C
Ambient storage temperature	-40 °C +80 °C

Classifications

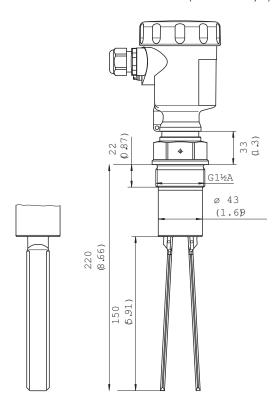
ECI@ss 5.0	27273202
ECI@ss 5.1.4	27273202
ECI@ss 6.0	27273202
ECI@ss 6.2	27273202
ECI@ss 7.0	27273202
ECI@ss 8.0	27273202
ECI@ss 8.1	27273202
ECI@ss 9.0	27273202
ETIM 5.0	EC002654
ETIM 6.0	EC002654
UNSPSC 16.0901	41111938

Dimensional drawing (Dimensions in mm (inch))

Temperature adapter

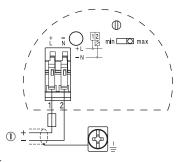


LBV310 threaded version G 11/2 A (DIN ISO 228/1)



Connection diagram

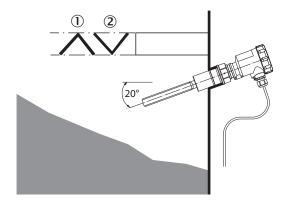
Contactless electronic switch connection diagram



① Shielding

Instruction for installation

Horizontal mounting



- ① Protective sheet
- ② Concave protective sheet for abrasive solids

Recommended accessories

Other models and accessories → www.sick.com/LBV300

	Brief description	Туре	Part no.
Mounting brackets and mounting plates			
	Locking screw connection, process pressure –1 bar to 16 bar, process connection G 2 A, inner thread G 1 $1/2$ A, stainless steel 316L	BEF-MU-316G20- ALBV	5322462
Electronic mo	odules		
	Contactless switch: 20 V AC/DC 250 V AC/DC	ECD-RE-LB- VKOS-0001	6038665

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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."

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