



LBV321-XTGCRKMx01000

LBV301



**THORNE &
DERRICK
INTERNATIONAL**

Thorne & Derrick
+44 (0) 191 490 1547
www.heatingandprocess.com

LEVEL SENSORS

SICK

Sensor Intelligence.



Illustration may differ



Ordering information

Type	Part no.
LBV321-XTGCRKMX01000	6044869

Other models and accessories → www.sick.com/LBV301

Detailed technical data

Features

Medium	Bulk solids
Measurement	Switch
Probe length	1,000 mm
Process pressure	-1 bar ... 6 bar
Process temperature	-20 °C ... +80 °C
Fill material density	≥ 0.02 g/cm³
Tensile strength	≤ 3,000 N

Performance

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

Electronics

Power consumption	5 mA ... 30 mA
Initialization time	< 2 s
VDE protection class 1	✓
Electrical connection	M20 x 1.5
Supply voltage	Double relay (DPDT): 20 V DC ... 72 V DC / 20 V AC ... 253 V AC
Hysteresis	10 mm
Output current	> 10 µA; < 3A AC, 1A DC
Enclosure rating	IP 66 / IP 67

Mechanics

Process connection	G 1 A
Housing material	Plastic
Sensor material	Stainless steel 316L, 318S, PUR, FEB

Ambient data

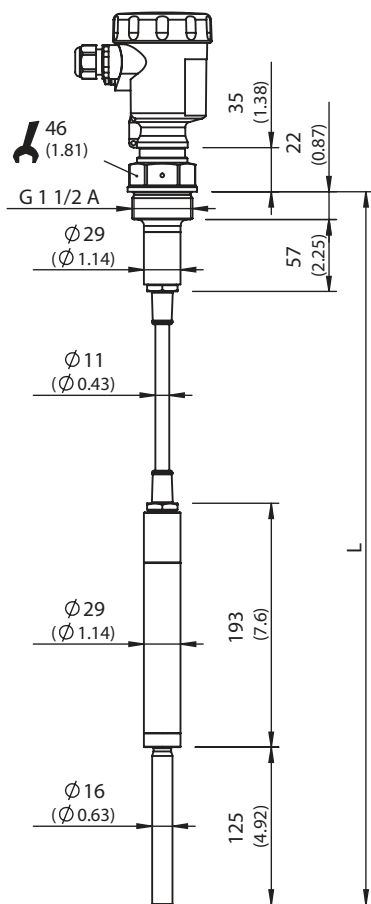
Ambient operating temperature	-40 °C ... +70 °C
Ambient storage temperature	-40 °C ... +80 °C

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
ETIM 5.0	EC002654
ETIM 6.0	EC002654
UNSPSC 16.0901	41111938

Dimensional drawing (Dimensions in mm (inch))

LBV321 threaded version G 1 ½ A



All dimensions in mm (inch)

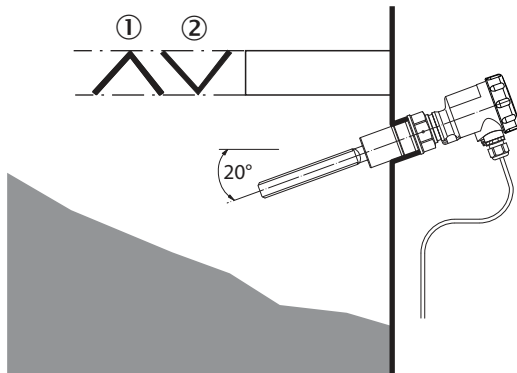
Technical drawing of a cable assembly. The drawing shows a cross-section of the assembly with various dimensions. The dimensions are as follows:

- Top section: 41 (1.61) mm
- Section 1: 27.5 (1.08) mm
- Section 2: 20 (0.79) mm
- Section 3: 51 (2) mm
- Section 4: 193 (7.6) mm
- Section 5: 125 (4.92) mm
- Section 6: 193 (7.6) mm
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- Section 184: 193 (7.6) mm

- Online data sheet | 2016-05-17 16:55:06
Subject to change without notice

Instruction for installation

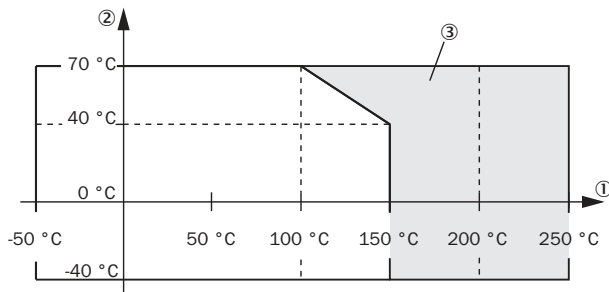
Horizontal mounting



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

Characteristic curve

Ambient temperature - process temperature



- ① Process temperature in °C (°F)
- ② Ambient temperature in °C (°F)
- ③ Temperature range with temperature adapter

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Thorne & Derrick
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