LFH-EB6X0G1AS20ST0 LFH

SICK Sensor Intelligence.

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PRESSURE SENSORS

LFH-EB6X0G1AS20ST0 | LFH

PRESSURE SENSORS



Ordering information

Other models and accessories -> www.sick.com/LFH





Detailed technical data

Features

Medium	Fluids		
Pressure type	Gauge pressure		
Pressure unit	bar		
Measuring range	0 bar 6 bar		
Process temperature	-10 °C +50 °C		
Maximum ohmic load R _A	4 mA 20 mA, 2-wire, $R_A \le (L^+ - 10 \text{ V}) / 0.02 \text{ A} - (0.14 \text{ x cable length in m})$ [Ohm] 0 V 10 V, 3-wire optional with enhanced variant, $R_A > 100 \text{ kOhm}$ 0 V 5 V, 3-wire optional with enhanced variant, $R_A > 100 \text{ kOhm}$		
Output signal	4 mA 20 mA, 2-wire		
Length of cable	20 m		
Cable material	PUR (tensile strength 1000 N), FEP optional available (tensile strength 500 N)		

Mechanics/electronics

Wetted parts	Housing: Stainless steel Pressure connection/diaphragm: CrNi steel Protection cap: PA
Connection type	PUR cable
Supply voltage	10 V DC 30 V DC
Electrical safety	Protection class: III Short-circuit protection: Q_A towards M Reverse polarity protection: L ⁺ to M Surge protection: According to EN 61000-4-5 (1.5 J) optional for enhanced variant
Dielectric strength	500~V DC, NEC Class 02 power supply (low voltage and low current max. 100 VA even in the event of a fault)
CE-conformity	EMC directive: 2014/30/EU, EN 61 326-2-3
Weight sensor	0.2 kg
Cable weight	0.08 kg/m
Enclosure rating	IP68
Protection class III	✓
MTTF	403 years

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Performance

Non-linearity	\leq \pm 0.2 %, of span (Best Fit Straight Line, BFSL) according to IEC 61298-2		
Accuracy	$\leq \pm$ 0.5 % of span with enhanced version with p < 0.25 bar		
Non-repeatability	\leq ± 0.1 % of the span		
Long-term drift/one-year stability	\leq ± 0.2 % of span (at reference conditions)		
Temperature coefficient in rated tempera- ture range	Mean TC of zero: \leq 0.2 % of span / 10 K (< 0.4 % for pressure ranges \leq 0.25 bar) Mean TC of span \leq 0.2 % of span / 10 K		
Rated temperature range	0 °C +50 °C		

Ambient data

Storage temperature	-30 °C +80 °C
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Classifications

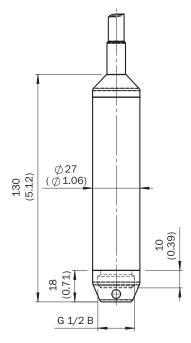
ECLASS 5.0	27200614
ECLASS 5.1.4	27200614
ECLASS 6.0	27200614
ECLASS 6.2	27200614
ECLASS 7.0	27200614
ECLASS 8.0	27200614
ECLASS 8.1	27200614
ECLASS 9.0	27200614
ECLASS 10.0	27200614
ECLASS 11.0	27200614
ECLASS 12.0	27200614
ETIM 5.0	EC011478
ETIM 6.0	EC011478
ETIM 7.0	EC011478
ETIM 8.0	EC011478
UNSPSC 16.0901	41111950

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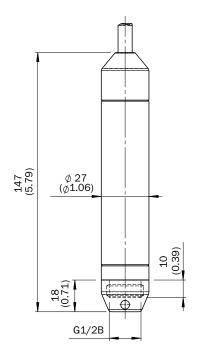
PRESSURE SENSORS

Dimensional drawing (Dimensions in mm (inch))

Enhanced variant with PUR cable (immersion depth up to 100 m)



Enhanced variant with FEP cable (immersion depth up to 100 m)



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Recommended accessories

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

	Brief description	Туре	Part no.	
Other mounting accessories				
,	Additional weight for stabilizing the LFH level sensor in moving liquids. Interior process connection G $\frac{1}{2}$, is fastened to the level sensor instead of the protective cap. Weight: 500 g., Stainless steel 1.4571	BEF-AW- LFHSST-0001	5324308	
Protection filter				
Ø	Protection filter for connection cable. Prevents humidity from entering the ventilation tube of the connection cable. For self-mounting at cable end.	APR-VF- LFH001-0001	5324309	
Terminal and alignment brackets				
	Cable tension clamp for mounting the connection cable of the level sensor, max. tensile load = 2.5 kN (not to be used with FEP cable), steel, zinc coated, plastic	BEF-CC- LFH001-0001	5324307	
Others				
4.5	 Items supplied: With integrated pressure compensation and terminal block Note: Dimensions (W x D x H) 57 mm x 130 mm x 94 mm, for electrical connection of level probe LFH 	ASK-CB-LFH- PCO-0001	5324310	

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



Online data sheet

