



LFP0560-G1BMB

LFP Inox

LEVEL SENSORS

SICK
Sensor Intelligence.



Ordering information

Type	part no.
LFP0560-G1BMB	1107731

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

Illustration may differ



Detailed technical data

Features

Medium	Fluids
Measurement	Switch, Continuous
Design	Remote amplifier
Probe type	Rod probe in hygienic design
Probe length	560 mm
Process pressure	-1 bar ... 16 bar
Process temperature	-20 °C ... +180 °C

Performance

Accuracy of sensor element	± 5 mm
Reproducibility	≤ 2 mm
Resolution	1 mm
Response time	400 ms ¹⁾
Dielectricity constant	≥ 5 for rod probe ≥ 1.8 with coaxial tube
Conductivity	No limitation
Deactivated area at process connection	25 mm ²⁾
Deactivated area at end of probe	≥ 10 mm ³⁾
MTTF	194.3 years (EN ISO 13849-1)
Display	✓

¹⁾ Dependent on measuring mode (high speed < 400 ms, high accuracy < 2,800 ms).

²⁾ With parameterized container with water under reference conditions, otherwise 40 mm.

³⁾ With water under reference conditions.

Electronics

Communication interface	IO-Link
Supply voltage	12 V DC ... 30 V DC ¹⁾
Power consumption	≤ 75 mA at 24 V DC without output load
Initialization time	≤ 2 s
Protection class	III
Connection type	Round connector M12 x 1, 5-pin
Length of cable	1 m
Output signal	1 x PNP + 1 x PNP/NPN + 4 mA ... 20 mA / 0 V ... 10 V
Output load	4 mA ... 20 mA < 500 Ohm at U _v > 13,5 V, 4 mA ... 20 mA < 400 Ohm at U _v > 12 V, 0 V ... 10 V > 750 Ohm at U _v 14 ≥ V
Hysteresis	≥ 2 mm ²⁾
Output current	< 100 mA
Inductive load	< 1 H
Capacitive load	< 100 nF
Enclosure rating	IP67 (EN 60529) IP69 (EN 60529)
Temperature drift	< 0.1 mm/K
Lower signal level	3.8 mA ... 4 mA, 0 V
Upper signal level	20 mA ... 20.5 mA, 10.5 V
EMC	EN 61326-2-3, 2014/30/EU

¹⁾ All connections are polarity protected. All outputs are overload and short-circuit protected.

²⁾ Freely adjustable.

Mechanics

Wetted parts	Stainless steel 1.4404 / 316L PEEK
Surface roughness	Ra ≤ 0,8 μm
Process connection	G ¾ A
Housing material	Stainless steel 1,4305
Housing design	With viewing window made from PMMA (acrylic glass)
Max. probe load	≤ 6 Nm
Material coaxial cable	FEP

Ambient data

Ambient operating temperature	-20 °C ... +60 °C
Ambient temperature, storage	-40 °C ... +80 °C
Ambient temperature coaxial cable	-20 °C ... +60 °C
Outdoor use	Only with weather hood

Certificates

EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓

China RoHS	✓
FDA certificate	✓
cULus certificate	✓
IO-Link certificate	✓
Food contact material manufacturer declaration	✓
Information according to Art. 3 of Data Act (Regulation EU 2023/2854)	✓

Classifications

ECLASS 5.0	27200513
ECLASS 5.1.4	27200513
ECLASS 6.0	27200513
ECLASS 6.2	27200513
ECLASS 7.0	27200513
ECLASS 8.0	27200513
ECLASS 8.1	27200513
ECLASS 9.0	27200513
ECLASS 10.0	27200513
ECLASS 11.0	27200513
ECLASS 12.0	27200513
ETIM 5.0	EC001447
ETIM 6.0	EC001447
ETIM 7.0	EC001447
ETIM 8.0	EC001447
UNSPSC 16.0901	41113710

Remote amplifier



All dimensions in mm (inch)
 Dimensions in mm (inch)

Connection type 5-pole M12 Connector

















- ① L⁺: Supply voltage, brown
- ② Q_A: Analog current-/voltage output, white

- ③ M: Ground, reference ground for current-/voltage output, blue
- ④ C/Q₁: Switching output 1, PNP/IO-Link-communication, black
- ⑤ Q₂: Switching output 2, PNP/NPN, grey





Recommended accessories






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

	Brief description	Type	part no.
device protection and care			
	<ul style="list-style-type: none"> Description: Weather protection cover for LFP Inox, material: 304 	APR-WP-LFP001-0001	2069530
	<ul style="list-style-type: none"> Description: Cover for LFP Inox with inspection window, material 1.4305 and PMMA 	Cover with front screen	2067267
	<ul style="list-style-type: none"> Description: Cover closed, material 1.4305 	Cover closed	2067269
	<ul style="list-style-type: none"> Description: Coaxial tube for LFP with process connection G 3/4, process connection of coax probe G 3/4, material 1.4571/316TI, for probe length 1900 mm 	LFPCT-1900G1	2068156
	<ul style="list-style-type: none"> Description: Coaxial tube for LFP with process connection G 3/4, process connection of coaxial tube G 3/4, material 1.4571/316TI, for probe length 2000 mm 	LFPCT-2000G1	2065703
	<ul style="list-style-type: none"> Description: Coaxial tube for LFP with process connection G 3/4, process connection of coaxial tube G 3/4, material 1.4571/316TI, for probe length 200 mm 	LFPCT-0200G1	2068141
	<ul style="list-style-type: none"> Description: Coaxial tube for LFP with process connection G 3/4, process connection of coaxial tube G 3/4, material 1.4571/316TI, for probe length 300 mm 	LFPCT-0300G1	2068142
	<ul style="list-style-type: none"> Description: Coaxial tube for LFP with process connection G 3/4, process connection of coaxial tube G 3/4, material 1.4571/316TI, for probe length 400 mm 	LFPCT-0400G1	2068143
	<ul style="list-style-type: none"> Description: Coaxial tube for LFP with process connection G 3/4, process connection of coaxial tube G 3/4, material 1.4571/316TI, for probe length 500 mm 	LFPCT-0500G1	2068144
	<ul style="list-style-type: none"> Description: Coaxial tube for LFP with process connection G 3/4, process connection of coaxial tube G 3/4, material 1.4571/316TI, for probe length 600 mm 	LFPCT-0600G1	2068145
	<ul style="list-style-type: none"> Description: Coaxial tube for LFP with process connection G 3/4, process connection of coaxial tube G 3/4, material 1.4571/316TI, for probe length 700 mm 	LFPCT-0700G1	2068146
	<ul style="list-style-type: none"> Description: Coaxial tube for LFP with process connection G 3/4, process connection of coax probe G 3/4, material 1.4571/316TI, for probe length 800 mm 	LFPCT-0800G1	2068147
	<ul style="list-style-type: none"> Description: Coaxial probe for LFP with process connection G 3/4, process connection of coaxial tube G 3/4, material 1.4571/316TI, for probe length 900 mm 	LFPCT-0900G1	2067507
	<ul style="list-style-type: none"> Description: Coaxial tube for LFP with process connection G 3/4, process connection of coaxial tube G 3/4, material 1.4571/316TI, for probe length 1000 mm 	LFPCT-1000G1	2065702

	Brief description	Type	part no.
Mounting systems			
	<ul style="list-style-type: none">• Description: Centering for bypass- and immersion tube installation with diameter 40 mm ... 100 mm• Dimensions (W x H x L): 100 mm x 5 mm x 100 mm• Material: PTFE• Details: PTFE• Packing unit: 1 piece	BEF-FL-BYRD40-LFP1	2059612

	Brief description	Type	part no.
	<ul style="list-style-type: none"> Usable for: LFP Inox Description: Hygienic process connection adapter, Tri-Clamp 1" and 1 1/2", including acceptance test certificate 3.1; Ra ≤ 0.4 μm, hygienic in accordance with EHEDG in combination with T-seals or Tri-Clamp seals from Combifit International B.V. 	BEF-HA-TCLI10-LFP2	2126242
	<ul style="list-style-type: none"> Description: Hygienic process connection adapter, Tri-Clamp 2"; including acceptance test certificate 3.1; Ra ≤ 0.4 μm, hygienic in accordance with EHEDG in combination with T-seals or Tri-Clamp seals from Combifit International B.V. 	BEF-HA-TCLI20-LFP2	2126243
	<ul style="list-style-type: none"> Description: Weld-in flange, hygienic, G 3/4" including acceptance test certificate 3.1, Ra ≤ 0.4 μm Material: Stainless steel Details: Stainless steel 1.4404 	BEF-HA-SWFL54-LFP2	2122489
	<ul style="list-style-type: none"> Description: Hygienic process connection adapter, Tri-Clamp 1" and 1 1/2"; hygienic in accordance with EHEDG in combination with T-seals or Tri-Clamp seals from Combifit International B.V. 	BEF-HA-TCLI10-LFP1	2058808
	<ul style="list-style-type: none"> Description: Hygienic process connection adapter, Tri-Clamp 2"; hygienic in accordance with EHEDG in combination with T-seals or Tri-Clamp seals from Combifit International B.V. 	BEF-HA-TCLI20-LFP1	2058824
	<ul style="list-style-type: none"> Description: Hygienic process connection adapter, Tri-Clamp 2 1/2"; hygienic in accordance with EHEDG in combination with T-seals or Tri-Clamp seals from Combifit International B.V. 	BEF-HA-TCLI25-LFP1	2069518
	<ul style="list-style-type: none"> Description: Hygienic process connection adapter, Varivent connection form N; hygienic in accordance with EHEDG in combination with EPDM O-ring 	BEF-HA-VAR-TYN-LFP1	2058822
	<ul style="list-style-type: none"> Description: Hygienic process connection adapter, coupling (DIN 11864-1) DN 25 form A with union nut; hygienic in accordance with EHEDG 	BEF-HA-641D25-LFP1	2058795
	<ul style="list-style-type: none"> Description: Hygienic process connection adapter, coupling (DIN 11864-2) DN 25 form A; hygienic in accordance with EHEDG 	BEF-HA-642D25-LFP1	2058823
	<ul style="list-style-type: none"> Description: Hygienic process connection adapter, clamp coupling (DIN 11864-3) BKS DN 25 form A, hygienic in accordance with EHEDG 	BEF-HA-643D25-LFP1	2058821
	<ul style="list-style-type: none"> Description: Hygienic process connection adapter, conical coupling (DIN 11851), DN 25 with grooved cap nut; hygienic in accordance with EHEDG in combination with ASEPTO-STAR k-flex upgrade gaskets from Kieselmann GmbH or SKS gasket set DIN 11851 EHEDG with EPDM or FKM inner gasket from Siersema Komponenten Service (S.K.S.) B.V 	BEF-HA-851D25-LFP1	2058138
	<ul style="list-style-type: none"> Description: Hygienic process connection adapter, conical coupling (DIN 11851), DN 40 with grooved cap nut, material 1.4404 (Ra ≤ 0.8 μm); hygienic in accordance with EHEDG in combination with ASEPTO-STAR k-flex upgrade gaskets from Kieselmann GmbH or SKS gasket set DIN 11851 EHEDG with EPDM or FKM inner gasket from Siersema Komponenten Service (S.K.S.) B.V 	BEF-HA-851D40-LFP1	2058139
	<ul style="list-style-type: none"> Description: Hygienic process connection adapter, conical coupling (DIN 11851), DN 50 with grooved cap nut; hygienic in accordance with EHEDG in combination with ASEPTO-STAR k-flex up- 	BEF-HA-851D50-LFP1	2058141

	Brief description	Type	part no.
connectors and cables			
	<ul style="list-style-type: none"> Description: Sensor/actuator cable, unshielded Connection type head A: Female connector, M12, 5-pin, straight Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 5-wire, PP Connection systems: Flying leads Note: This product is generally resistant to chemical cleaning agents (see ECOLAB) and other chemical compounds such as H2O2 and CH2O2. Before permanent installation is carried out, the material's resistance to the cleaning agent being used must be checked., Resistant against lactic acid & hydrogen peroxide (H2O2) Application: Hygienic and washdown zones, Drag chain operation, Robot, cold bending resistant, seawater resistant 	DOL-1205-G02MRN	6058494
	<ul style="list-style-type: none"> Description: Sensor/actuator cable, unshielded Connection type head A: Female connector, M12, 5-pin, straight Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 5-wire, PP Connection systems: Flying leads Note: This product is generally resistant to chemical cleaning agents (see ECOLAB) and other chemical compounds such as H2O2 and CH2O2. Before permanent installation is carried out, the material's resistance to the cleaning agent being used must be checked., Resistant against lactic acid & hydrogen peroxide (H2O2) Application: Hygienic and washdown zones, Drag chain operation, Robot, cold bending resistant, seawater resistant 	DOL-1205-G05MRN	6058495
	<ul style="list-style-type: none"> Description: Sensor/actuator cable, unshielded Connection type head A: Female connector, M12, 5-pin, straight Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 10 m, 5-wire, PP Connection systems: Flying leads Note: This product is generally resistant to chemical cleaning agents (see ECOLAB) and other chemical compounds such as H2O2 and CH2O2. Before permanent installation is carried out, the material's resistance to the cleaning agent being used must be checked., Resistant against lactic acid & hydrogen peroxide (H2O2) Application: Hygienic and washdown zones, Drag chain operation, Robot, cold bending resistant, seawater resistant 	DOL-1205-G10MRN	6058496
	<ul style="list-style-type: none"> Description: Sensor/actuator cable, unshielded Connection type head A: Female connector, M12, 5-pin, straight Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 25 m, 5-wire, PVC Connection systems: Flying leads Note: This product is generally resistant to chemical cleaning agents (see ECOLAB). Please do not use cleaning agents of any other Kind., Not resistant against lactic acid & hydrogen peroxide (H2O2) Application: Uncontaminated zones, Hygienic and washdown zones, Zones with chemicals 	YF2AP5-250VB5XLEAX	6052628
	<ul style="list-style-type: none"> Description: Sensor/actuator cable, unshielded Connection type head A: Female connector, M12, 5-pin, straight Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 25 m, 5-wire, PP Connection systems: Flying leads Note: This product is generally resistant to chemical cleaning agents (see ECOLAB) and other chemical compounds such as H2O2 and CH2O2. Before permanent installation is carried out, the material's resistance to the cleaning agent being used must be checked., Resistant against lactic acid & hydrogen peroxide (H2O2) Application: Hygienic and washdown zones, Drag chain operation, Robot, cold bending resistant, seawater resistant 	DOL-1205-G25MRN	6058497
	<ul style="list-style-type: none"> Description: Sensor/actuator cable, unshielded Connection type head A: Female connector, M12, 5-pin, straight Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 5-wire, PVC Connection systems: Flying leads Note: This product is generally resistant to chemical cleaning agents (see ECOLAB). Please do not use cleaning agents of any other Kind., Not resistant against lactic acid & hydrogen peroxide (H2O2) 	YF2AP5-020VB5XLEAX	6052625

	Brief description	Type	part no.
	<ul style="list-style-type: none"> • Application: Untaminated zones, Hygienic and washdown zones, Zones with chemicals • Description: Sensor/actuator cable, unshielded • Connection type head A: Female connector, M12, 5-pin, straight • Connection type head B: Flying leads • Signal type: Sensor/actuator cable • Cable: 5 m, 5-wire, PVC • Connection systems: Flying leads • Note: This product is generally resistant to chemical cleaning agents (see ECOLAB). Please do not use cleaning agents of any other Kind., Not resistant against lactic acid & hydrogen peroxide (H2O2) • Application: Untaminated zones, Hygienic and washdown zones, Zones with chemicals 	YF2AP5-050VB5XLEAX	6052626
	<ul style="list-style-type: none"> • Description: Sensor/actuator cable, unshielded • Connection type head A: Female connector, M12, 5-pin, straight • Connection type head B: Flying leads • Signal type: Sensor/actuator cable • Cable: 10 m, 5-wire, PVC • Connection systems: Flying leads • Note: This product is generally resistant to chemical cleaning agents (see ECOLAB). Please do not use cleaning agents of any other Kind., Not resistant against lactic acid & hydrogen peroxide (H2O2) • Application: Untaminated zones, Hygienic and washdown zones, Zones with chemicals 	YF2AP5-100VB5XLEAX	6052627
	<ul style="list-style-type: none"> • Description: Sensor/actuator cable, unshielded • Connection type head A: Female connector, M12, 5-pin, straight • Connection type head B: Flying leads • Signal type: Sensor/actuator cable • Cable: 20 m, 5-wire, PP • Connection systems: Flying leads • Note: This product is generally resistant to chemical cleaning agents (see ECOLAB) and other chemical compounds such as H2O2 and CH2O2. Before permanent installation is carried out, the material's resistance to the cleaning agent being used must be checked., Resistant against lactic acid & hydrogen peroxide (H2O2) • Application: Hygienic and washdown zones, Drag chain operation, Robot, cold bending resistant, seawater resistant 	YF2AP5-200PA3XLEAX	2146868
	<ul style="list-style-type: none"> • Description: Sensor/actuator cable, unshielded • Connection type head A: Female connector, M12, 5-pin, straight • Connection type head B: Flying leads • Signal type: Sensor/actuator cable • Cable: 40 m, 5-wire, PP • Connection systems: Flying leads • Note: This product is generally resistant to chemical cleaning agents (see ECOLAB) and other chemical compounds such as H2O2 and CH2O2. Before permanent installation is carried out, the material's resistance to the cleaning agent being used must be checked., Resistant against lactic acid & hydrogen peroxide (H2O2) • Application: Hygienic and washdown zones, Drag chain operation, Robot, cold bending resistant, seawater resistant 	YF2AP5-400PA3XLEAX	2146869
		CBL-CX-001000-LFPI	2077795

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:

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