



SICK Sensor Intelligence.

TDR LEVEL SENSOR

TDR LEVEL SENSOR



Ordering information

Туре	Part no.
LFP2000-G1NMBL	1073552

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

Illustration may differ



Detailed technical data

Features

Medium	Fluids
Measurement	Switch, Continuous
Design	Standard
Probe length	2,000 mm
Process pressure	-1 bar 16 bar
Process temperature	-20 °C +150 °C
UL approval	\checkmark
RoHS certificate	\checkmark
IO-Link	\checkmark
EHEDG approval	\checkmark
PWIS-cleaned	1

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⁾

 $^{(1)}$ 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.

TDR LEVEL SENSOR

MTTF Display

194.3 years (EN ISO 13849-1)

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 $^{(1)}$ 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

Supply voltage	12 V DC 30 V DC ¹⁾
Power consumption	\leq 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
Output signal	1 x PNP + 1 x PNP/NPN + 4 mA 20 mA / 0 V 10 V
Output load	4 mA 20 mA < 500 0hm at Uv > 13,5 V, 4 mA 20 mA < 400 0hm at Uv > 12 V, 0 V 10 V > 750 0hm at Uv 14 \geq V
Hysteresis	Min. 2 mm, free adjustable
Output current	< 100 mA
Inductive load	<1H
Capacitive load	< 100 nF
Enclosure rating	IP67 / 69: 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

 $^{\mbox{\sc 1})}$ All connections are polarity protected. All outputs are overload and short-circuit protected.

Mechanics

Wetted parts	316L (Ra ≤ 0,8 µm), PEEK
Process connection	G 3⁄4 A
Housing material	303
Housing design	With viewing window made from PMMA (acrylic glass)
Max. probe load	≤ 6 Nm
Ambient data	
Ambient operating temperature	-20 °C +60 °C
Ambient temperature, storage	-40 °C +80 °C
Outdoor use	Only with weather hood
Classifications	
ECLASS 5.0	27200513
	07000740

ECLASS 5.1.4	27200513
ECLASS 6.0	27200513
ECLASS 6.2	27200513
ECLASS 7.0	27200513
ECLASS 8.0	27200513

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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

Type code

Type code

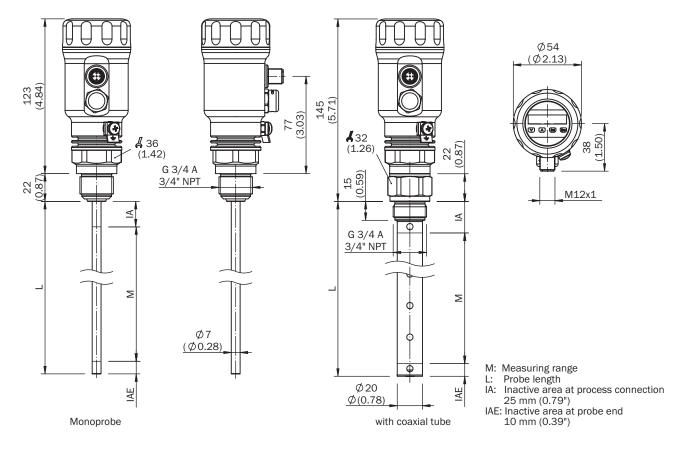
0025 Without probe 0200 200 mm (in increments of 10 mm) 4000 4,000 mm Process connection/probe version C G ¾ A; probe rod 1.4404 interchangeable; 150 °C 16 ba D ¾" NPT; probe rod 1.4404 interchangeable; 150 °C 16 ba G G ¾ A (connection for hygienic adapters) / probe rod made from 1.4404 N ¾" NPT/probe rod from 1.4404 P G ¾ A (connection for pharmaceutical process connection) / probe rod made of 1.4404, Ra ≤ 0.4 µm (verification), 150 °C, 16 bar, 3.1 material certificate, calibration certificate Housing/display/device connection 1 Stainless-steel housing with display, cover with sight glass / 1 x 5-pin M12 male connector 2 Stainless-steel housing with display, cover with sight glass / 1 x 8-pin M12 male connector 3 Stainless-steel housing with display, cover with sight glass / 1 x 8-pin M12 male connector 6 Stainless-steel housing with display, solid cover / 1 : 8-pin M12 male connector 7 Stainless-steel housing with display, solid cover / 1 : 8-pin M12 male connector 8 Stainless-steel housing with display, solid cover / 1 : 8-pin M12 male connector 6 Stainless-steel housing with display, solid cover / 1 : 8-pin M12 male connector 7 Stainless-steel housin	Probe len	gth in mm
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Process connection/probe version C G ¾ A; probe rod 1.4404 interchangeable; 150 ° C 16 b D ¾* NPT; probe rod 1.4404 interchangeable; 150 ° C 16 b G G ¾ A (connection for hygienic adapters) / probe rod mace from 1.4404 N ¾* NPT/probe rod from 1.4404 P G ¾ A (connection for pharmaceutical process connection) / probe rod made of 1.4404, Ra ≤ 0.4 µm (verification), 150 ° C, 16 bar, 3.1 material certificate, calibration certificate Housing/display/device connection 1 Stainless-steel housing with display, cover with sight glass / 1 x 5-pin M12 male connector 3 Stainless-steel housing with display, solid cover / 1 : 5-pin M12 male connector 3 Stainless-steel housing with display, cover with sight glass / 1 x 5-pin M12 male connector 6 Stainless-steel housing with display, cover with sight glass / 1 x 5-pin M12 male connector 7 Stainless-steel housing with display, cover with sight glass/ cable connector 8 Stainless-steel housing with display, cover with sight glass/cable connector, 5-pin 8 Stainless-steel housing with display, solid cover / 1 : 8-pin M12 male connector 7 Stainless-steel housing with display, cover with sight glass/cable connection, 5-pin 8 Stainless-steel housing with display, solid cover/cab connection, 8-pin 9 Stai	0200	
C G ¾ A; probe rod 1.4404 interchangeable; 150 °C 16 ba D ¾" NPT; probe rod 1.4404 interchangeable; 150 °C 16 ba G ¾ A (connection for phygienic adapters) / probe rod mac from 1.4404 N ¾" NPT/probe rod from 1.4404 P G ¾ A (connection for pharmaceutical process connection) / probe rod made of 1.4404, Ra ≤ 0.4 µm (verification) certificate Housing/display/device connection 1 Stainless-steel housing with display, cover with sight glass / 1 x 5-pin M12 male connector 2 Stainless-steel housing with display, solid cover / 1 : 5-pin M12 male connector 3 Stainless-steel housing with display, cover with sight glass / 1 x 5-pin M12 male connector 6 Stainless-steel housing with display, cover with sight glass / 1 x 8-pin M12 male connector 7 Stainless-steel housing with display, cover with sight glass/cable connection, 5-pin 8 Stainless-steel housing with display, solid cover / 1 : 8-pin M12 male connector 7 Stainless-steel housing with display, solid cover / 2 : 8-pin M12 male connector 8 Stainless-steel housing with display, solid cover/cab connection, 5-pin 8 Stainless-steel housing with display, solid cover/cab connection, 8-pin 0 Stainless-steel housing with display, solid cover/cab connection, 8-pin <t< td=""><td>4000</td><td>4,000 mm</td></t<>	4000	4,000 mm
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G G 3/4 A (connection for hygienic adapters) / probe rod mac from 1.4404 N 9/4" NPT/probe rod from 1.4404 P G 3/4 A (connection for pharmaceutical process connection) / probe rod made of 1.4404, Ra ≤ 0.4 µm (verification), 150 °C, 16 bar, 3.1 material certificate, calibration certificate Housing/display/device connection 1 Stainless-steel housing with display, cover with sight glass / 1 x 5-pin M12 male connector 2 Stainless-steel housing with display, solid cover / 1 : 5-pin M12 male connector 3 Stainless-steel housing with display, cover with sight glass / 1 x 5-pin M12 male connector 6 Stainless-steel housing with display, cover with sight glass / 1 x 5-pin M12 male connector 7 Stainless-steel housing with display, cover with sight glass/cable connecton, 5-pin 8 Stainless-steel housing with display, cover with sight glass/cable connection, 5-pin 8 Stainless-steel housing with display, solid cover/cab connection, 8-pin 9 Stainless-steel housing with display, solid cover/cab connection, 8-pin 9 Stainless-steel housing with display, solid cover/cab connection, 8-pin 9 Stainless-steel housing with display, solid cover/cab connection, 8-pin 9 Stainless-steel housing with display, solid cover/cab connection, 8-pin 9 R		C G ³ / ₄ A; probe rod 1.4404 interchangeable; 150 °C 16 bar
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N ¾" NPT/probe rod from 1.4404 P G ¾ A (connection for pharmaceutical process connection) / probe rod made of 1.4404, Ra ≤ 0.4 µm (verification), 150 °C, 16 bar, 3.1 material certificate, calibration certificate Housing/display/device connection 1 Stainless-steel housing with display, cover with sight glass / 1 x 5-pin M12 male connector 2 Stainless-steel housing 3-A-compliant with display, solid cover / 1: 5-pin M12 male connector 3 Stainless-steel housing 3-A-compliant with display, solid cover / 1: 5-pin M12 male connector 6 Stainless-steel housing with display, cover with sight glass / 1 x 8-pin M12 male connector 7 Stainless-steel housing with display, cover with sight glass/cable connection, 5-pin 8 Stainless-steel housing with display, solid cover/cab connection, 5-pin 8 Stainless-steel housing with display, solid cover/cab connection, 8-pin 9 Stainless-steel housing with display, solid cover/cab connection, 8-pin 9 Stainless-steel housing with display, solid cover/cab connection, 8-pin 9 Stainless-steel housing with display, solid cover/cab connection, 8-pin 9 Stainless-steel housing with display, solid cover/cab connection, 8-pin 9 Stainless-steel housing with display. Solid cover/cab connection, 8-pin 9 Remote amplifier; length of cable 1 m		G G ³ / ₄ A (connection for hygienic adapters) / probe rod made
P G 3/4 A (connection for pharmaceutical process connection) / probe rod made of 1.4404, Ra ≤ 0.4 µm (verification), 150 °C, 16 bar, 3.1 material certificate, calibration certificate Housing/display/device connection 1 Stainless-steel housing with display, cover with sight glass / 1 x 5-pin M12 male connector 2 Stainless-steel housing 3.4 compliant with display, solid cover / 1 : 5-pin M12 male connector 3 Stainless-steel housing 3.4 compliant with display, solid cover / 1 : 5-pin M12 male connector 6 Stainless-steel housing with display, cover with sight glass / 1 x 8-pin M12 male connector 7 Stainless-steel housing with display, cover with sight glass / 1 x 8-pin M12 male connector 7 Stainless-steel housing with display, cover with sight glass/cable connection, 5-pin C Stainless-steel housing with display, solid cover/cab connection, 5-pin C Stainless-steel housing with display, solid cover/cab connection, 8-pin D Stainless-steel housing with display, solid cover/cab connection, 8-pin D Stainless-steel housing with display, solid cover/cab connection, 8-pin D Stainless-steel housing with display, solid cover/cab connection, 8-pin D Stainless-steel housing with display. Solid cover/cab connection, 8-pin D Remote amplifier; length of cable 1 m Remote amplifier; length of cab		from 1.4404
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Housing/display/device connection 1 Stainless-steel housing with display, cover with sight glass / 1 x 5-pin M12 male connector 2 Stainless-steel housing with display, solid cover / 1 x 5-pin M12 male connector 3 Stainless-steel housing 3-A-compliant with display, solid cover / 1 x 5-pin M12 male connector 6 Stainless-steel housing with display, cover with sight glass / 1 x 8-pin M12 male connector 7 Stainless-steel housing with display, solid cover / 1 x 8-pin M12 male connector 7 Stainless-steel housing with display, cover with sight glass/cable connection, 5-pin 8 Stainless-steel housing with display, cover with sight glass/cable connection, 8-pin 0 Stainless-steel housing with display, cover with sight glass/cable connection, 8-pin 10 Stainless-steel housing with display, solid cover/cab connection, 8-pin 11 Stainless-steel housing with display, solid cover/cab connection, 8-pin 12 Stainless-steel housing with display, solid cover/cab connection, 8-pin 13 Stainless-steel housing with display, solid cover/cab connection, 8-pin 14 M 15 Standard 16 Remote amplifier; length of cable 1 m 17 Remote amplifier; length of cable 3.3 m 17 Signal output M </td <td></td> <td>tion), 150 °C, 16 bar, 3.1 material certificate, calibration</td>		tion), 150 °C, 16 bar, 3.1 material certificate, calibration
1 Stainless-steel housing with display, cover with sight glass / 1 x 5-pin M12 male connector 2 Stainless-steel housing 3-A-compliant with display, solid cover / 1 x 5-pin M12 male connector 3 Stainless-steel housing 3-A-compliant with display, solid cover / 1 x 5-pin M12 male connector 6 Stainless-steel housing with display, cover with sight glass / 1 x 8-pin M12 male connector 7 Stainless-steel housing with display, solid cover / 1 x 8-pin M12 male connector 7 Stainless-steel housing with display, solid cover / 1 x 8-pin M12 male connector 7 Stainless-steel housing with display, cover with sight glass/cable connection, 5-pin 8 Stainless-steel housing with display, cover with sight glass/cable connection, 8-pin 0 Stainless-steel housing with display, solid cover/cab connection, 8-pin 0 Stainless-steel housing with display, solid cover/cab connection, 8-pin 0 Stainless-steel housing with display, solid cover/cab connection, 8-pin 0 Stainless-steel housing with display, solid cover/cab connection, 8-pin 10 Stainless-steel housing with display, solid cover/cab connection, 8-pin 11 Application type/design 12 N Standard 13 Standard M 14 M 4 20 mA / 0		certificate
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2 Stainless-steel housing with display, solid cover / 1 : 5-pin M12 male connector 3 3 Stainless-steel housing 3-A-compliant with display, solid cover / 1 x 5-pin M12 male connector 6 Stainless-steel housing with display, cover with sight glass / 1 x 8-pin M12 male connector 7 Stainless-steel housing with display, solid cover / 1 : 8-pin M12 male connector 7 7 Stainless-steel housing with display, solid cover / 1 : 8-pin M12 male connector 7 8 Stainless-steel housing with display, solid cover / 1 : 8-pin M12 male connector 7 8 Stainless-steel housing with display, solid cover / cab connection, 5-pin B Stainless-steel housing with display, solid cover/cab connection, 8-pin D Stainless-steel housing with display, solid cover/cab connection, 8-pin D Stainless-steel housing with display, solid cover/cab connection, 8-pin D Stainless-steel housing with display, solid cover/cab connection, 8-pin D Standard M Remote amplifier; length of cable 1 m Remote amplifier; length of cable 2 m D D Remote amplifier; length of cable 3.3 m Signal output M 4		
5-pin M12 male connector 3 Stainless-steel housing 3-A-compliant with display, solid cover / 1 x 5-pin M12 male connector 6 Stainless-steel housing with display, cover with sight glass / 1 x 8-pin M12 male connector 7 Stainless-steel housing with display, solid cover / 1 x 8-pin M12 male connector A Stainless-steel housing with display, solid cover / 1 x 8-pin M12 male connector A Stainless-steel housing with display, cover with sight glass/cable connection, 5-pin B Stainless-steel housing with display, solid cover/cab connection, 5-pin C Stainless-steel housing with display, solid cover/cab connection, 8-pin D Stainless-steel housing with display, solid cover/cab connection, 8-pin D Stainless-steel housing with display, solid cover/cab connection, 8-pin D Stainless-steel housing with display, solid cover/cab connection, 8-pin D Standard B Remote amplifier; length of cable 1 m C Remote amplifier; length of cable 2 m D Remote amplifier; length of cable 3.3 m Signal output M 4 20 mA / 010 V, switchable Switching output B 1 x PNP + 1 x PNP/NPN C 1 x PNP + 3 x PNP/NPN Device type St		
3 Stainless-steel housing 3-A-compliant with display, sid is cover / 1 x 5-pin M12 male connector 6 Stainless-steel housing with display, cover with sight glass / 1 x 8-pin M12 male connector 7 Stainless-steel housing with display, solid cover / 1 : 8-pin M12 male connector A Stainless-steel housing with display, cover with sight glass/cable connection, 5-pin B Stainless-steel housing with display, cover with sight glass/cable connection, 5-pin C Stainless-steel housing with display, cover with sight glass/cable connection, 8-pin D Stainless-steel housing with display, solid cover/cab connection, 8-pin D Stainless-steel housing with display, solid cover/cab connection, 8-pin D Stainless-steel housing with display, solid cover/cab connection, 8-pin D Standard B Remote amplifier; length of cable 1 m C Remote amplifier; length of cable 2 m D Remote amplifier; length of cable 3.3 m Signal output M 4 20 mA / 010 V, switchable Switching output B 1 x PNP + 1 x PNP/NPN C 1 x PNP + 3 x PNP/NPN Device type Standard Standard Standard		
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6 Stainless-steel housing with display, cover with sight glass / 1 x 8-pin M12 male connector 7 Stainless-steel housing with display, solid cover / 1 : 8-pin M12 male connector A Stainless-steel housing with display, cover with sight glass/cable connection, 5-pin B Stainless-steel housing with display, solid cover/cab connection, 5-pin C Stainless-steel housing with display, cover with sight glass/cable connection, 8-pin D Stainless-steel housing with display, solid cover/cab connection, 8-pin D Stainless-steel housing with display, solid cover/cab connection, 8-pin D Stainless-steel housing with display, solid cover/cab connection, 8-pin D Stainless-steel housing with display, solid cover/cab connection, 8-pin D Standard B Remote amplifier; length of cable 1 m C Remote amplifier; length of cable 2 m D Remote amplifier; length of cable 3.3 m Signal output M 4 20 mA / 010 V, switchable Switching output B 1 x PNP + 1 x PNP/NPN C I x PNP + 3 x PNP/NPN Device type		
glass / 1 x 8-pin M12 male connector 7 Stainless-steel housing with display, solid cover / 1: 8-pin M12 male connector A Stainless-steel housing with display, cover with sight glass/cable connection, 5-pin B Stainless-steel housing with display, solid cover/cab connection, 5-pin C Stainless-steel housing with display, cover with sight glass/cable connection, 8-pin D Stainless-steel housing with display, solid cover/cab connection, 8-pin D Standard B Remote amplifier; length of cable 1 m C Remote amplifier; length of cable 2 m D Remote amplifier; length of cable 3.3 m Signal output M M 4 20 mA / 010 V, switchable Switching output B I 1 x PNP + 1 x PNP/NPN D Standard		
7 Stainless-steel housing with display, solid cover / 1: 8-pin M12 male connector A Stainless-steel housing with display, cover with sight glass/cable connection, 5-pin B Stainless-steel housing with display, solid cover/cab connection, 5-pin C Stainless-steel housing with display, cover with sight glass/cable connection, 8-pin D Stainless-steel housing with display, solid cover/cab connection, 8-pin D Stainless-steel housing with display, solid cover/cab connection, 8-pin D Stainless-steel housing with display, solid cover/cab connection, 8-pin D Stainless-steel housing with display, solid cover/cab connection, 8-pin D Standard N Standard N Standard B Remote amplifier; length of cable 1 m C Remote amplifier; length of cable 2 m D Remote amplifier; length of cable 3.3 m Signal output M M 4 20 mA / 010 V, switchable Switching output B C 1 x PNP + 1 x PNP/NPN D C 1 x PNP + 3 x PNP/NPN		
8-pin M12 male connector A Stainless-steel housing with display, cover with sight glass/cable connection, 5-pin B Stainless-steel housing with display, solid cover/cab connection, 5-pin C Stainless-steel housing with display, cover with sight glass/cable connection, 8-pin D Stainless-steel housing with display, solid cover/cab connection, 8-pin D Stainless-steel housing with display, solid cover/cab connection, 8-pin D Stainless-steel housing with display, solid cover/cab connection, 8-pin D Standard B Remote amplifier; length of cable 1 m C Remote amplifier; length of cable 2 m D Remote amplifier; length of cable 3.3 m Signal output M M 4 20 mA / 010 V, switchable Switching output B C 1 x PNP + 1 x PNP/NPN C 1 x PNP + 3 x PNP/NPN D Standard		
glass/cable connection, 5-pin B Stainless-steel housing with display, solid cover/cable connection, 5-pin C Stainless-steel housing with display, cover with sight glass/cable connection, 8-pin D Stainless-steel housing with display, solid cover/cable connection, 8-pin Application type/design N Standard Remote amplifier; length of cable 1 m Remote amplifier; length of cable 2 m D D Remote amplifier; length of cable 3.3 m Signal output M M 4 20 mA / 010 V, switchable Switching output B C Standard		8-pin M12 male connector
B Stainless-steel housing with display, solid cover/cab connection, 5-pin C Stainless-steel housing with display, cover with sight glass/cable connection, 8-pin D Stainless-steel housing with display, solid cover/cab connection, 8-pin D Stainless-steel housing with display, solid cover/cab connection, 8-pin D Stainless-steel housing with display, solid cover/cab connection, 8-pin D Remote amplifier; length of cable 1 m Remote amplifier; length of cable 2 m D D Remote amplifier; length of cable 2 m D Remote amplifier; length of cable 3.3 m Signal output M M 4 20 mA / 010 V, switchable Switching output B C 1 x PNP + 1 x PNP/NPN D E 1 x PNP + 3 x PNP/NPN		
C Stainless-steel housing with display, cover with sight glass/cable connection, 8-pin D Stainless-steel housing with display, solid cover/cab connection, 8-pin Application type/design N N Standard B Remote amplifier; length of cable 1 m C Remote amplifier; length of cable 2 m D Remote amplifier; length of cable 3.3 m Signal output M M 4 20 mA / 010 V, switchable Switching output B C 1 x PNP + 1 x PNP/NPN D Standard		
glass/cable connection, 8-pin D Stainless-steel housing with display, solid cover/cable connection, 8-pin Application type/design N Standard B Remote amplifier; length of cable 1 m C Remote amplifier; length of cable 2 m D Remote amplifier; length of cable 3.3 m Signal output M 4 20 mA / 010 V, switchable Switching output B 1 x PNP + 1 x PNP/NPN C 1 x PNP + 3 x PNP/NPN Device type Standard		
D Stainless-steel housing with display, solid cover/cab connection, 8-pin Application type/design N Standard B Remote amplifier; length of cable 1 m C Remote amplifier; length of cable 2 m D Remote amplifier; length of cable 3.3 m Signal output M M 4 20 mA / 010 V, switchable Switching output B C 1 x PNP + 1 x PNP/NPN D D B 1 x PNP + 3 x PNP/NPN D D M 1 x PNP + 3 x PNP/NPN D Standard		C Stainless-steel housing with display, cover with sight
connection, 8-pin Application type/design N Standard B Remote amplifier; length of cable 1 m C Remote amplifier; length of cable 2 m D Remote amplifier; length of cable 3.3 m Signal output M 4 20 mA / 010 V, switchable Switching output B 1 x PNP + 1 x PNP/NPN 1 x PNP + 3 x PNP/NPN Device type Standard		glass/cable connection, 8-pin
Application type/design N Standard B Remote amplifier; length of cable 1 m C Remote amplifier; length of cable 2 m D Remote amplifier; length of cable 3.3 m Signal output M M 4 20 mA / 010 V, switchable Switching output B I x PNP + 1 x PNP/NPN I x PNP + 3 x PNP/NPN Device type Standard		D Stainless-steel housing with display, solid cover/cable
N Standard B Remote amplifier; length of cable 1 m C Remote amplifier; length of cable 2 m D Remote amplifier; length of cable 3.3 m Signal output M M 4 20 mA / 010 V, switchable Switching output B I x PNP + 1 x PNP/NPN D 1 x PNP + 3 x PNP/NPN D Standard		
B Remote amplifier; length of cable 1 m C Remote amplifier; length of cable 2 m D Remote amplifier; length of cable 3.3 m Signal output M M 4 20 mA / 010 V, switchable Switching output B C 1 x PNP + 1 x PNP/NPN C 1 x PNP + 3 x PNP/NPN Device type Standard		Application type/design
C Remote amplifier; length of cable 2 m D Remote amplifier; length of cable 3.3 m Signal output M M 4 20 mA / 010 V, switchable Switching output B 1 x PNP + 1 x PNP/NPN C 1 x PNP + 3 x PNP/NPN Device type Standard		N Standard
D Remote amplifier; length of cable 3.3 m Signal output M 4 20 mA / 010 V, switchable Switching output B 1 x PNP + 1 x PNP/NPN C 1 x PNP + 3 x PNP/NPN Device type Standard		
Signal output M 4 20 mA / 010 V, switchable Switching output B 1 x PNP + 1 x PNP/NPN C 1 x PNP + 3 x PNP/NPN Device type Standard		
M 4 20 mA / 010 V, switchable Switching output B 1 x PNP + 1 x PNP/NPN C 1 x PNP + 3 x PNP/NPN Device type Standard		
Switching output B 1 x PNP + 1 x PNP/NPN C 1 x PNP + 3 x PNP/NPN Device type Standard		
B 1 x PNP + 1 x PNP/NPN C 1 x PNP + 3 x PNP/NPN Device type Standard		
C 1 x PNP + 3 x PNP/NPN Device type Standard		
Device type Standard		
Standard		
L LABS-cleaned		
		L LABS-cleaned
	•	\downarrow \downarrow \downarrow \downarrow \downarrow \downarrow
FP - M	FP	- M M

Not all variants of the type code can be combined!

Dependence between length of coaxial cable and probe length

Length of coaxial cable (mm)	Max. probe length (mm) - foam mode deactivated	Max. probe length (mm) - foam mode active
1000	4,000	2000
2000	3,000	1500
3300	1,000	500

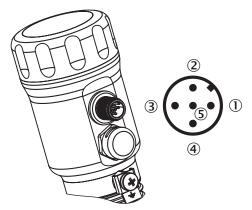
Dimensional drawing (Dimensions in mm (inch))



TDR LEVEL SENSOR

Connection type

5-pole M12 Connector



- ① L⁺: Supply voltage, brown
- O QA: 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	Туре	Part no.		
Hardware					
a la	Weather protection cover for LFP Inox, material: 304	APR-WP- LFP001-0001	2069530		
Spare parts					
T	Cover closed, material 1.4305	Cover closed	2067269		
O	Cover for LFP Inox with inspection window, material 1.4305 and PMMA	Cover with front screen	2067267		
Device protec	tion (mechanical)				
	Coaxial tube for LFP with process connection G $^{3}\!$	LFPCT-0200G1	2068141		
1.	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		
	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		
	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		
	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		
	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		

LFP2000-G1NMBL | LFP Inox TDR LEVEL SENSOR

	Brief description	Туре	Part no.
	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
	Coaxial probe for LFP with process connection G 3/4, process connection of coaxial tube G 3/4, material $1.4571/316$ Tl, for probe length 900 mm	LFPCT-0900G1	2067507
	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
	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 1100 mm	LFPCT-1100G1	2068148
	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 1200 mm	LFPCT-1200G1	2068149
	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 1300 mm	LFPCT-1300G1	2068150
	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 1400 mm	LFPCT-1400G1	2068151
	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 1500 mm	LFPCT-1500G1	2068152
	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 1600 mm	LFPCT-1600G1	2068153
	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 1700 mm	LFPCT-1700G1	2068154
	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 1800 mm	LFPCT-1800G1	2068155
	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
	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
Flanges			
	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
	Hygienic process connection adapter, coupling (DIN 11864-2) DN 25 form A; hygienic in accordance with EHEDG	BEF-HA- 642D25-LFP1	2058823
	Hygienic process connection adapter, clamp coupling (DIN 11864-3) BKS DN 25 form A, hygienic in accordance with EHEDG	BEF-HA- 643D25-LFP1	2058821
	Hygienic process connection adapter, conical coupling (DIN 11851), DN 25 ^s 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
\bigcirc	Hygienic process connection adapter, conical coupling (DIN 11851), DN 40 ^s with grooved cap nut, material 1.4404 (Ra \leq 0.8 μ m); 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
$\overline{\mathbf{O}}$	Hygienic process connection adapter, conical coupling (DIN 11851), DN 50 ^s 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- 851D50-LFP1	2058141
	Hygienic process connection adapter, conical coupling (DIN 11851), DN 65 ^S 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- 851D65-LFP1	2063328

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	Brief description	Туре	Part no.
۲	Hygienic process connection adapter, Tri-Clamp 1" and 1 ½"; hygienic in accordance with EHEDG in combination with T-seals or Tri-Clamp seals from Combifit International B.V.	BEF-HA-TCLI10-LFP1	2058808
	Hygienic process connection adapter, Tri-Clamp 1" and 1 $\frac{1}{2}$ ", including acceptance test certificate 3.1; Ra \leq 0.4 μ m, hygienic in accordance with EHEDG in combination with T-seals or Tri-Clamp seals from Combifit International B.V.	BEF-HA-TCLI10-LFP2	2126242
	Hygienic process connection adapter, Tri-Clamp 1" and $1^{1}\!\!\!/_2$ " with leakage indication port according to 3-A guidelines	BEF-HA-TCLI10-LFP3	2058851
	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
	Hygienic process connection adapter, Tri-Clamp 2"; including acceptance test certificate 3.1; Ra \leq 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
	Hygienic process connection adapter, Tri-Clamp 2 $\frac{1}{2}$ "; hygienic in accordance with EHEDG in combination with T-seals or Tri-Clamp seals from Combifit International B.V.	BEF-HA-TCLI25-LFP1	2069518
	Hygienic process connection adapter, Varivent connection form N; hygienic in accor- dance with EHEDG in combination with EPDM O-ring	BEF-HA-VAR- TYN-LFP1	2058822
	Weld-in flange, hygienic, G 3/4" including acceptance test certificate 3.1, Ra \leq 0.4 $\mu m,$ Stainless steel 1.4404	BEF-HA- SWFL54-LFP2	2122489
Plug connecto	rs and cables		
6	 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 Description: Sensor/actuator cable, unshielded 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: Hygienic and washdown zones 	DOL-1205-GO2MNI	6052625
6	 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 Description: Sensor/actuator cable, unshielded 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 	DOL-1205-G02MRN	6058494
6	 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 Description: Sensor/actuator cable, unshielded 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: Hygienic and washdown zones 	DOL-1205-G05MNI	6052626

LFP2000-G1NMBL | LFP Inox TDR LEVEL SENSOR

	Brief description	Туре	Part no.	
~0	 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 Description: Sensor/actuator cable, unshielded 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 	DOL-1205-G05MRN	6058495	
**	 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 Description: Sensor/actuator cable, unshielded 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: Hygienic and washdown zones 	DOL-1205-G10MNI	6052627	
6	 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 Description: Sensor/actuator cable, unshielded 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 	DOL-1205-G10MRN	6058496	
	 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 Description: Sensor/actuator cable, unshielded 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: Hygienic and washdown zones 	DOL-1205-G25MNI	6052628	
	 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 Description: Sensor/actuator cable, unshielded 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 	DOL-1205-G25MRN	6058497	
Terminal and alignment brackets				
See 1	1 piece, Centering for bypass- and immersion tube installation with diameter 40 mm 100 mm, PTFE	BEF-FL-BYRD40-LFP1	2059612	

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Recommended services

Additional services -> www.sick.com/LFP_Inox

	Туре	Part no.
Function Block Factory		
 Description: The Function Block Factory supports common programmable logic controllers (PLCs) from various manufacturers, such as Siemens, Beckhoff, Rockwell Automation and B&R. More information on the FBF can be found > here. Note: You can configure your function block at > Function Block Factory. As a login please use your SICK ID. 	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.

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Online data sheet

