

LFP0600-G5NMCS36

LFP Cubic

LEVEL SENSORS





Ordering information

Туре	part no.
LFP0600-G5NMCS36	1123200

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

Illustration may differ



Detailed technical data

Features

Medium	Fluids
Measurement	Switch, Continuous
Design	Hybrid version
Probe type	Rod probe in hygienic design
Probe length	600 mm
Process pressure	-1 bar 16 bar
Process temperature	-20 °C +150 °C

Performance

Accuracy of sensor element	± 5 mm ¹⁾
Reproducibility	≤ 2 mm
Resolution	< 2 mm
Response time	400 ms
Dielectricity constant	≥ 5 for rod probe / cable probe ≥ 1.8 with coaxial tube
Conductivity	No limitation
Maximum level change	≤ 500 mm/s
Deactivated area at process connection	25 mm ²⁾
Deactivated area at end of probe	≥ 10 mm ¹⁾
MTTF	194.3 years (EN ISO 13849-1)
Display	✓

 $^{^{1)}}$ With water under reference conditions.

 $^{^{2)}\}mbox{With parameterized container with water under reference conditions, otherwise 40 mm.$

Electronics

Communication interface	IO-Link
Supply voltage	12 V DC 30 V DC ¹⁾
Power consumption	≤ 100 mA at 24 V DC without output load
Initialization time	≤5s
Protection class	III
Connection type	M12 round connector x 1, 8-pin
Output signal	1 x PNP + 3 x PNP/NPN + 4 mA 20 mA / 0 V 10 V
Output load	4 mA 20 mA < 350 Ohm at Uv > 12 V, 0 V 10 V > 750 Ohm at Uv 14 \geq V
Hysteresis	≥ 2 mm ²⁾
Output current	< 100 mA
Inductive load	<1H
Capacitive load	100 nF
Enclosure rating	IP67 (EN 60529)
Temperature drift	< 0.1 mm/K
Lower signal level	3.8 mA 4 mA
Upper signal level	20 mA 20.5 mA

 $^{^{(1)}}$ All connections are polarity protected. All outputs are overload and short-circuit protected. $^{(2)}$ Freely adjustable.

Mechanics

Wetted parts	Stainless steel 1.4404 / 316L ¹⁾ PEEK
Process connection	G ¾ A
Housing material	Plastic PBT
Max. probe load	≤ 6 Nm

¹⁾ Ra \leq 0,8 μ m.

Ambient data

Ambient operating temperature	-20 °C +60 °C
Ambient temperature, storage	-40 °C +80 °C

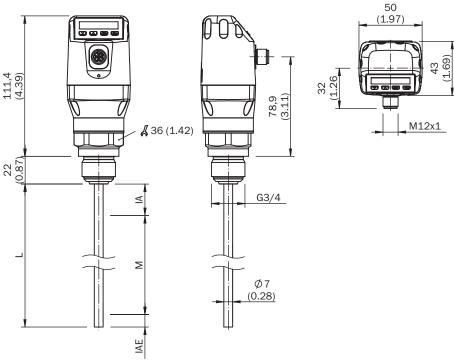
Certificates

EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China RoHS	✓
EHEDG approval	✓
cULus certificate	✓
IO-Link certificate	✓
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

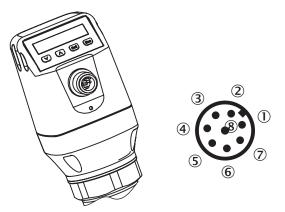
Dimensional drawing: Rod probe (hybrid version)



Dimensions in mm (inch)

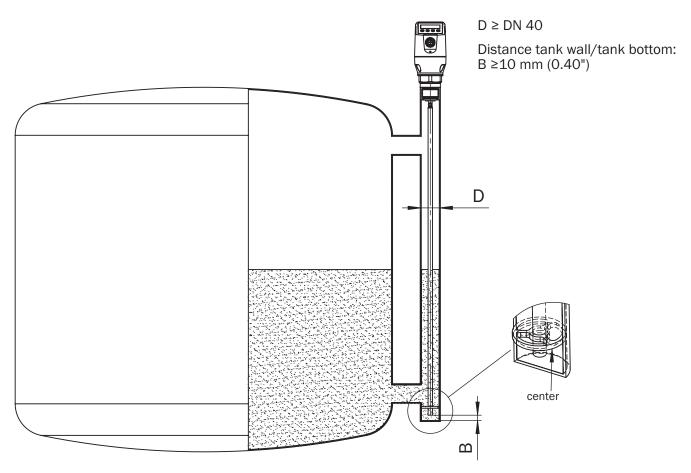
- ① M: measuring range
- ② L: Probe length
- ③ IA: Inactive area at process connection 25 mm (0.98")
- ④ IAE: Inactive area at probe end 10 mm (0.39")

Connection type

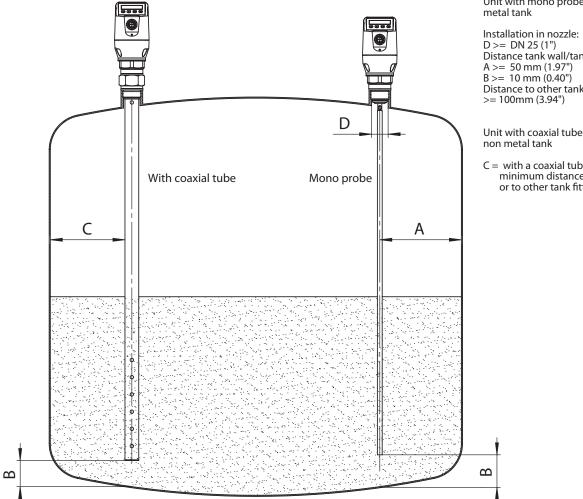


- 1 L+: Supply voltage
- ② Q₂: Switching output 2, PNP/NPN
- ③ M: Ground, reference ground for current-/voltage output
- C/Q₁: Switching output 1, PNP/IO-Link-communication
- ⑤ Q₃: Switching output 3, PNP/NPN
- ⑥ Q₄: Switching output 4, PNP/NPN
- ⑦ Q_A: Analog current-/voltage output
- ® No function

Instruction for installation Installation in a metal immersion tube or metal bypass



Instruction for installation Installation in a metal tank



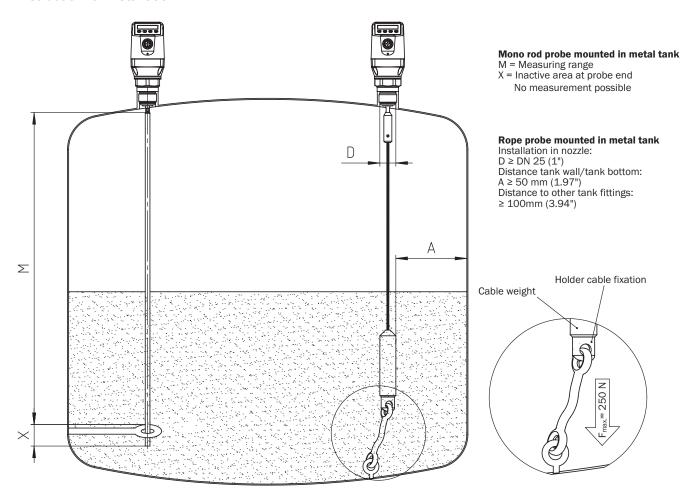
Unit with mono probe mounted in

Distance to other tank fittings >= 100mm (3.94")

Unit with coaxial tube for metal and

C = with a coaxial tube there are no minimum distances to the tank wall or to other tank fittings required

Instruction for installation



Recommended accessories

Other models and accessories \rightarrow www.sick.com/LFP_Cubic

	Brief description	Туре	part no.
Mounting systems			
	 Description: Mounting bracket Material: Stainless steel Details: Stainless steel 1.4301 (AISI 304) Items supplied: Mounting hardware included 	BEF-FL-304LFP-HLDR	2077391
	• Description: Spare probe for LFP Cubic, probe length 1000 mm, material 1.4404/316L, diameter 7 mm	BEF-ER- SN1000-LFPC	2065700
	• Description: Spare probe for LFP Cubic, probe length 2000 mm, material 1.4404/316L, diameter 7 mm	BEF-ER- SN2000-LFPC	2065701

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