

CFP0400-XPXNNBX

CFP Cubic

LEVEL SENSORS





Ordering information

Туре	Part no.
CFP0400-XPXNNBX	1083125

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

Illustration may differ



Detailed technical data

Features

Medium	Water and oil-based liquids
Measurement	Switch, Continuous
Probe length	400 mm
Process pressure	-0.5 bar 3 bar
Process temperature	-20 °C +80 °C
UL approval	√
RoHS certificate	√
IO-Link	✓

Performance

Accuracy of sensor element	± 15 mm (with water or oil under reference conditions)
Reproducibility	< 5 mm
Resolution	< 2 mm
Response time	< 300 ms
Dielectricity constant	≥ 2
Conductivity	No limitation
Deactivated area at end of probe	7 mm 15 mm, Depending on probe length

Electronics

Supply voltage	10 V DC 30 V DC ¹⁾
Power consumption	≤ 100 mA at 24 V DC without output load
Initialization time	≤4s

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

Protection class	III
Connection type	Round connector M12 x 1, 5-pin
Output signal	2x PNP/NPN/push-pull transistor outputs switchable and $1x$ analog output 4 mA 20 mA / $0V$ $10V$ automatically switchable depending on output load or output voltage depending on the load
Output load	4 mA 20 mA < 500 Ohm at Uv > 15 V, 4 mA 20 mA < 350 Ohm at Uv > 12 V, 0 V 10 V > 750 Ohm at Uv 14 \geq V
Hysteresis	Min. 3 mm, min. 2 °C, free adjustable
Signal voltage HIGH	Uv -3 V
Signal voltage LOW	< 3 V
Output current	< 100 mA
Inductive load	<1H
Capacitive load	100 nF
Enclosure rating	IP65 / IP67
Temperature drift	< 0.1 mm/K
Lower signal level	3.8 mA 4 mA
Upper signal level	20 mA 20.5 mA
Resolution of analog output	12 bit

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

Mechanics

Wetted parts	Outer tube: polypropylene (PP-H), G $^3\!4"$ and $^3\!4"$ NPT: PPSU, Easy-clamp bracket: PP	
Process connection	Without process connection	
Housing material	PBT / PC	
Max. probe load	≤ 4 Nm	
Probe diameter	16 mm	

Ambient data

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

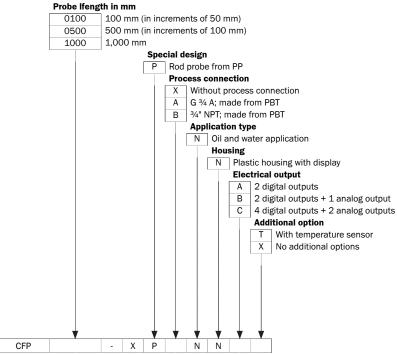
Classifications

ECI@ss 5.0	27200503
ECI@ss 5.1.4	27200503
ECI@ss 6.0	27200503
ECI@ss 6.2	27200503
ECI@ss 7.0	27200503
ECI@ss 8.0	27200503
ECI@ss 8.1	27200503
ECI@ss 9.0	27200503
ECI@ss 10.0	27200503
ECI@ss 11.0	27200503
ETIM 5.0	EC001447
ETIM 6.0	EC001447
ETIM 7.0	EC001447

UNSPSC 16.0901

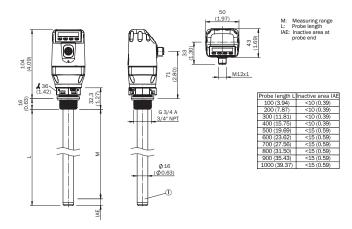
41113710

Type code

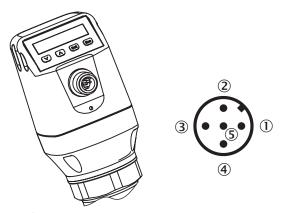


Not all variants of the type code can be combined!

Dimensional drawing (Dimensions in mm (inch))



Connection type



- L⁺: Supply voltage
 Q_A: Analog current-/voltage output
- M: Ground, reference ground for current-/voltage output
 C/Q1: Switching output 2, PNP/NPN/DRV (Push-Pull) / IO-Link
 Q₂: Switching output 2, PNP/NPN/DRV (Push-Pull)

Recommended accessories

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

	Brief description	Туре	Part no.
Terminal and	alignment brackets		
	Easy-clamp bracket for variable probe fastening, without mounting hardware	BEF-FL- PRBCFP-HLDR	2087299
Plug connecto	ors and cables		
	Head A: female connector, M12, 5-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m	YF2A15- 020UB5XLEAX	2095617
	Head A: female connector, M12, 5-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YF2A15- 020VB5XLEAX	2096239
	Head A: female connector, M12, 5-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m	YF2A15- 050UB5XLEAX	2095618
	Head A: female connector, M12, 5-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m	YF2A15- 050VB5XLEAX	2096240
	Head A: female connector, M12, 5-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 m	YF2A15- 100UB5XLEAX	2095619
	Head A: female connector, M12, 5-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 10 m	YF2A15- 100VB5XLEAX	2096241

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	Brief description	Туре	Part no.
	Head A: female connector, M12, 5-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m	YG2A15- 020UB5XLEAX	2095772
	Head A: female connector, M12, 5-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YG2A15- 020VB5XLEAX	2096215
3	Head A: female connector, M12, 5-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m	YG2A15- 050UB5XLEAX	2095773
	Head A: female connector, M12, 5-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m	YG2A15- 050VB5XLEAX	2096216
3	Head A: female connector, M12, 5-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 m	YG2A15- 100UB5XLEAX	2095774
1	Head A: female connector, M12, 5-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 10 m	YG2A15- 100VB5XLEAX	2096217

Recommended services

Additional services → www.sick.com/CFP_Cubic

	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 .	Function Block Factory	On request

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