



CFP0600-XPANNCT

CFP Cubic

LEVEL SENSORS

SICK
Sensor Intelligence.



Illustration may differ



IO-Link



Ordering information

Type	Part no.
CFP0600-XPANNCT	1090862

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

Detailed technical data

Features

Medium	Water and oil-based liquids
Measurement	Switch, Continuous
Probe length	600 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
Temperature measurement	
Measuring range (temperature)	-20 °C ... +80 °C
Accuracy (temperature)	± 2 °C
Resolution (Temperature)	≤ 0.1 °C
Response time (temperature)	120 s

Electronics

Supply voltage	10 V DC ... 30 V DC ¹⁾
Power consumption	≤ 100 mA at 24 V DC without output load
Initialization time	≤ 4 s
Protection class	III
Connection type	M12 round connector x 1, 8-pin
Output signal	4 x PNP/NPN/push-pull transistor outputs switchable and 2 x analog outputs 4 mA ... 20 mA, 0 V ... 10 V depending on output load or output voltage depending on the load
Output load	4 mA ... 20 mA < 500 Ohm at U _v > 15 V, 4 mA ... 20 mA < 350 Ohm at U _v > 12 V, 0 V ... 10 V > 750 Ohm at U _v 14 ≥ V
Hysteresis	Min. 3 mm, min. 2 °C, free adjustable
Signal voltage HIGH	U _v -3 V
Signal voltage LOW	< 3 V
Output current	< 100 mA
Inductive load	< 1 H
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 ¾" and ¾" NPT: PPSU, Easy-clamp bracket: PP
Process connection	G ¾ A
Housing material	PBT / PC
Max. probe load	≤ 4 Nm
Probe diameter	16 mm

Ambient data

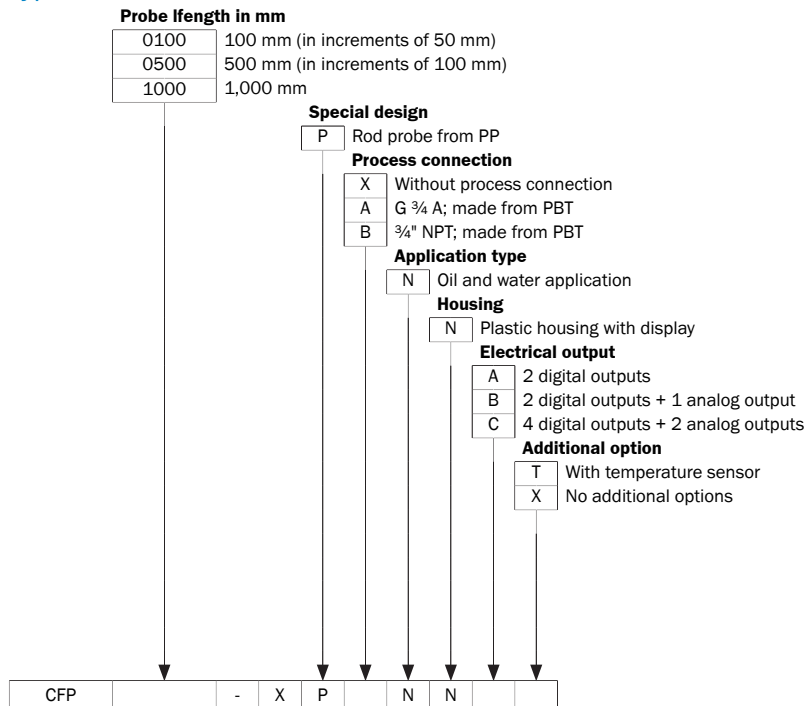
Ambient operating temperature	-20 °C ... +60 °C
Ambient storage temperature	-40 °C ... +80 °C

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

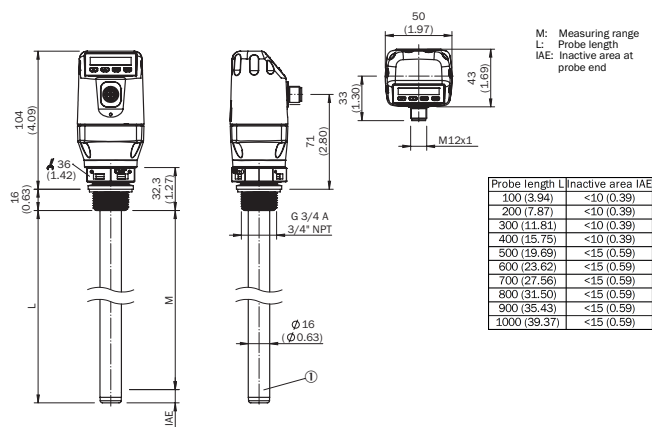
ECI@ss 11.0	27200503
ETIM 5.0	EC001447
ETIM 6.0	EC001447
ETIM 7.0	EC001447
UNSPSC 16.0901	41113710

Type code

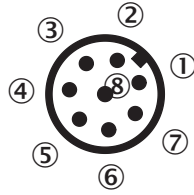
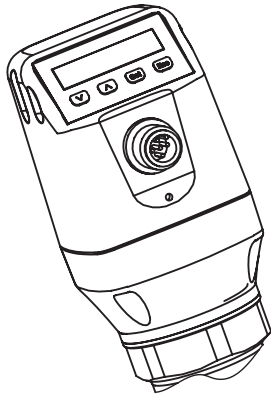


Not all variants of the type code can be combined!

Dimensional drawing (Dimensions in mm (inch))



Connection type



- ① L⁺: Supply voltage
- ② Q₂: Switching output 2, PNP/NPN/DRV (Push-Pull)
- ③ M: Ground, reference ground for current-/voltage output
- ④ C/Q1: Switching output 2, PNP/NPN/DRV (Push-Pull) / IO-Link
- ⑤ Q₃: Switching output 3, PNP/NPN/DRV (Push-Pull)
- ⑥ Q₄: Switching output 4, PNP/NPN/DRV (Push-Pull)
- ⑦ Q_A: Analog current-/voltage output
- ⑧ Q_B: Analog current-/voltage output

Recommended accessories

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

	Brief description	Type	Part no.
Plug connectors and cables			
	Head A: female connector, M12, 8-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m	YF2A18-020UA5XLEAX	2095652
	Head A: female connector, M12, 8-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m	YF2A18-050UA5XLEAX	2095653
	Head A: female connector, M12, 8-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 m	YF2A18-100UA5XLEAX	2095654
	Head A: female connector, M12, 8-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, shielded, 2 m	YF2A28-020VA6XLEAX	2096243
	Head A: female connector, M12, 8-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, shielded, 5 m	YF2A28-050VA6XLEAX	2096244
	Head A: female connector, M12, 8-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, shielded, 10 m	YF2A28-100VA6XLEAX	2096245
	Head A: female connector, M12, 8-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m	YG2A18-020UA5XLEAX	2095779
	Head A: female connector, M12, 8-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m	YG2A18-050UA5XLEAX	2095780

	Brief description	Type	Part no.
	Head A: female connector, M12, 8-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 m	YG2A18-100UA5XLEAX	2095781
	Head A: female connector, M12, 8-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, shielded, 2 m	YG2A28-020VA6XLEAX	2096218
	Head A: female connector, M12, 8-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, shielded, 5 m	YG2A28-050VA6XLEAX	2096219

Recommended services

Additional services → www.sick.com/CFP_Cubic

	Type	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

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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