

SICK Sensor Intelligence.

LEVEL SENSORS

LEVEL SENSORS



Ordering information

Туре	Part no.
CFP0200-XPANNCT	1090858

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

Illustration may differ



Detailed technical data

Features

Medium	Fluids
Measurement	Switch, Continuous
Probe length	200 mm
Process pressure	-0.5 bar 3 bar
Process temperature	-20 °C +80 °C
UL approval	✓
RoHS certificate	✓
IO-Link	\checkmark

Performance

Accuracy of sensor element	\pm 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
MTTF	171 years
Display	✓
Temperature measurement	
Measuring range (temperature)	-20 °C +80 °C
Measurement accuracy (temperature)	±2°C
Resolution (Temperature)	≤ 0.1 °C

Response time (temperature) 120 s

Electronics

Communication interface	IO-Link
Supply voltage	10 V DC 30 V DC ¹⁾
Power consumption	\leq 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 Uv > 15 V, 4 mA 20 mA < 350 Ohm at Uv > 12 V, 0 V 10 V > 750 Ohm at Uv 14 ≥ V
Hysteresis	Min. 3 mm, min. 2 °C, free adjustable
Output current	< 100 mA
Inductive load	<1H
Capacitive load	100 nF
Enclosure rating	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

 $^{\left(1\right) }$ 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 3⁄4 A
Housing material	PBT / PC
Max. probe load	≤ 4 Nm
Probe diameter	16 mm

Ambient data

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

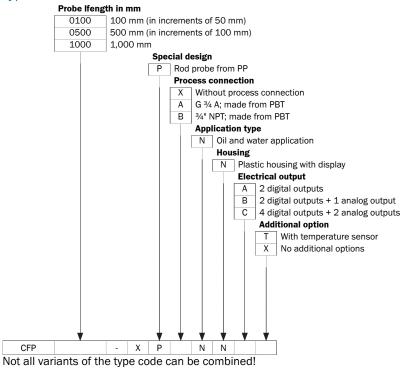
Classifications

ECLASS 5.0	27200503
ECLASS 5.1.4	27200503
ECLASS 6.0	27200503
ECLASS 6.2	27200503
ECLASS 7.0	27200503
ECLASS 8.0	27200503
ECLASS 8.1	27200503

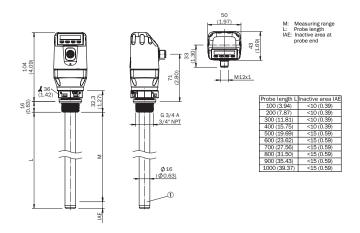
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ECLASS 9.0	27200503
ECLASS 10.0	27200503
ECLASS 11.0	27200503
ECLASS 12.0	27200503
ETIM 5.0	EC001447
ETIM 6.0	EC001447
ETIM 7.0	EC001447
ETIM 8.0	EC001447
UNSPSC 16.0901	41113710

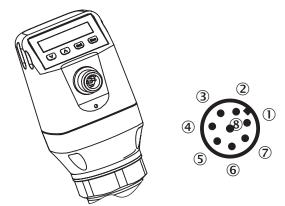
Type code



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	Туре	Part no.	
Connection modules				
	IO-Link V1.1 Class A port, USB2.0 port, optional external power supply $24V / 1A$	IOLA2US-01101 (SiLink2 Master)	1061790	
×,	 Connection type head A: Female connector, M12, 8-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 8-wire, PVC Description: Sensor/actuator cable, shielded Application: Zones with chemicals, Uncontaminated zones 	YF2A28- 020VA6XLEAX	2096243	
¥,	 Connection type head A: Female connector, M12, 8-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 8-wire, PVC Description: Sensor/actuator cable, shielded Application: Zones with chemicals, Uncontaminated zones 	YF2A28- 050VA6XLEAX	2096244	
×.	 Connection type head A: Female connector, M12, 8-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 8-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation 	YF2A18- 020UA5XLEAX	2095652	

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	Brief description	Туре	Part no.
X .	 Connection type head A: Female connector, M12, 8-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 8-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation 	YF2A18- 050UA5XLEAX	2095653
×.	 Connection type head A: Female connector, M12, 8-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 10 m, 8-wire, PVC Description: Sensor/actuator cable, shielded Application: Zones with chemicals, Uncontaminated zones 	YF2A28- 100VA6XLEAX	2096245
¥.	 Connection type head A: Female connector, M12, 8-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 10 m, 8-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation 	YF2A18- 100UA5XLEAX	2095654
	 Connection type head A: Female connector, M12, 8-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 8-wire, PVC Description: Sensor/actuator cable, shielded Application: Zones with chemicals, Uncontaminated zones 	YG2A28- 020VA6XLEAX	2096218
	 Connection type head A: Female connector, M12, 8-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 8-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation 	YG2A18- 020UA5XLEAX	2095779
	 Connection type head A: Female connector, M12, 8-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 8-wire, PVC Description: Sensor/actuator cable, shielded Application: Zones with chemicals, Uncontaminated zones 	YG2A28- 050VA6XLEAX	2096219
	 Connection type head A: Female connector, M12, 8-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 8-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation 	YG2A18- O5OUA5XLEAX	2095780
	 Connection type head A: Female connector, M12, 8-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 10 m, 8-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation 	YG2A18- 100UA5XLEAX	2095781
	 Connection type head A: Female connector, M12, 8-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 0.5 m, 8-wire, PVC Description: Sensor/actuator cable, shielded Application: Zones with chemicals, Uncontaminated zones 	YG2A28- C50VA6XLEAX	2145694

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	Brief description	Туре	Part no.	
×.	 Connection type head A: Female connector, M12, 8-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 3 m, 8-wire, PVC Description: Sensor/actuator cable, shielded Application: Zones with chemicals, Uncontaminated zones 	YF2A28- 030VA6XLEAX	2145695	
Sensor Visualization				
l	 Product category: LED signal lamp Further functions: IO-Link signal lamp, Parameterization via IO-Link, Simple configuration directly via the SOPAS ET user interface, the engineering tool from SICK 	SLT060-0B010J700	6075938	

Recommended services

Additional services -> www.sick.com/CFP_Cubic

	Туре	Part no.
Function Block Factory		
 Description: The Function Block Factory is an engineering tool for creating device and environment-specific function blocks that enable IO-Link sensors to be integrated into programmable logic controllers. The Function Block Factory supports common programmable logic controllers (PLCs) of various manufacturers such as Siemens, Beckhoff, Rock-well Automation B&R and more. More information on the FBF can be found https://fbf.cloud.sick.com Provision: Customers can obtain access to the Function Block Factory and the license via https://fbf.cloud.sick.com 	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:

Contacts and other locations -www.sick.com



Online data sheet

