



CFP0900-XPXNNCT

CFP Cubic

LEVEL SENSORS

SICK
Sensor Intelligence.



Illustration may differ



Ordering information

Type	part no.
CFP0900-XPXNNCT	1094561

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

Detailed technical data

Features

Medium	Fluids
Measurement	Switch, Continuous
Probe length	900 mm
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
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	≤ 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
Output current	< 100 mA
Inductive load	< 1 H
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

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	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 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	✓
cULus certificate	✓

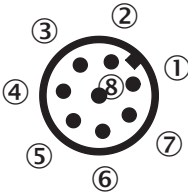
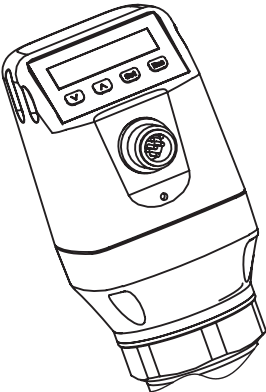
Classifications

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.
network devices			
		IOLA2US-01101 (SiLink2 Master)	1061790
signal transmitters			
	• Description: IO-Link signal lamp • Enclosure rating: IP65	SLT060-0B010J700	6075938

	Brief description	Type	part no.
connectors and cables			
	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
	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	YG2A18-050UA5XLEAX	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	YG2A18-100UA5XLEAX	2095781

	Brief description	Type	part no.
	Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation 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
	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
	Connection type head A: Female connector, M12, 8-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 0.6 m, 8-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation	YG2A18-C60UA5XLEAX	2145381
	Connection type head A: Female connector, M12, 8-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 1 m, 8-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation	YG2A18-010UA5XLEAX	2145382
	Connection type head A: Female connector, M12, 8-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 3 m, 8-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation	YG2A18-030UA5XLEAX	2145383
	Connection type head A: Female connector, M12, 8-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 0.6 m, 8-wire, PVC Description: Sensor/actuator cable, shielded Application: Zones with chemicals, Uncontaminated zones	YG2A28-C60VA6XLEAX	2145388
	Connection type head A: Female connector, M12, 8-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 1 m, 8-wire, PVC Description: Sensor/actuator cable, shielded Application: Zones with chemicals, Uncontaminated zones	YG2A28-010VA6XLEAX	2145389
	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, PVC Description: Sensor/actuator cable, shielded Application: Zones with chemicals, Uncontaminated zones	YG2A28-100VA6XLEAX	2145391
	Connection type head A: Female connector, M12, 8-pin, angled, 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	YG2A28-030VA6XLEAX	2145390
	Connection type head A: Female connector, M12, 8-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 0.6 m, 8-wire, PVC Description: Sensor/actuator cable, shielded Application: Zones with chemicals, Uncontaminated zones	YF2A28-C60VA6XLEAX	2145385
	Connection type head A: Female connector, M12, 8-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 1 m, 8-wire, PVC Description: Sensor/actuator cable, shielded	YF2A28-010VA6XLEAX	2145386

	Brief description	Type	part no.
	• Application: Zones with chemicals, Uncontaminated zones	YG2A18-150UA5XLEAX	2149335
	• Connection type head A: Female connector, M12, 8-pin, angled, A-coded • Connection type head B: Flying leads • Signal type: Sensor/actuator cable • Cable: 15 m, 8-wire, PUR, halogen-free • Description: Sensor/actuator cable, unshielded • Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation		
Mounting systems			
	• Description: Easy-clamp bracket for variable probe fastening • Items supplied: Without mounting hardware	BEF-FL-PRBCFP-HLDR	2087299

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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.”

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