

SICK Sensor Intelligence.

**LEVEL SENSORS** 

LEVEL SENSORS



#### Ordering information

Туре	Part no.
CFP0900-XPANNAX	1083213

Other models and accessories -> www.sick.com/CFP\_Cubic

Illustration may differ



#### Detailed technical data

#### Features

Medium	Fluids
Measurement	Switch, Continuous
Probe length	900 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
MTTF	171 years
Display	✓
Fleetwaries	

#### Electronics

Communication interface IO-Link
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 $^{\mbox{1})}$  All connections are polarity protected. All outputs are overload and short-circuit protected.

Supply voltage	10 V DC 30 V DC <sup>1)</sup>
Power consumption	≤ 100 mA at 24 V DC without output load
Initialization time	≤ 4 s
Protection class	III
Connection type	Round connector M12 x 1, 5-pin
Output signal	2 x PNP/NPN/push-pull transistor outputs switchable
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
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

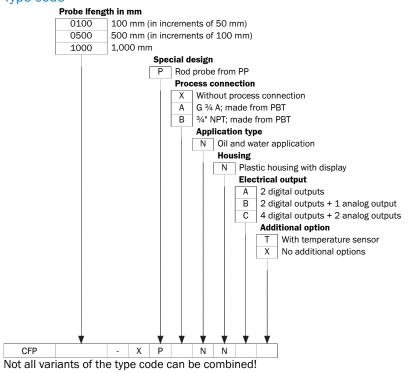
#### Classifications

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
ECLASS 9.0	27200503
ECLASS 10.0	27200503
ECLASS 11.0	27200503
ECLASS 12.0	27200503

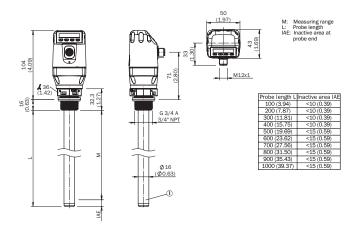
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ETIM 5.0	EC001447
ETIM 6.0	EC001447
ETIM 7.0	EC001447
ETIM 8.0	EC001447
UNSPSC 16.0901	41113710

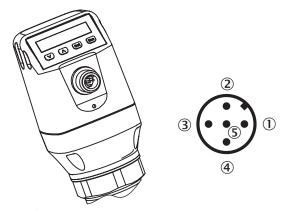
#### Type code



Dimensional drawing (Dimensions in mm (inch))



#### Connection type



- L<sup>+</sup>: Supply voltage
   Q<sub>A</sub>: Analog current-/voltage output
- ③ M: Ground, reference ground for current-/voltage output
   ④ C/Q1: Switching output 2, PNP/NPN/DRV (Push-Pull) / IO-Link
   ⑤ Q<sub>2</sub>: Switching output 2, PNP/NPN/DRV (Push-Pull)

#### **Recommended accessories**

Other models and accessories -> www.sick.com/CFP\_Cubic

	Brief description	Туре	Part no.	
Connection n	Connection modules			
	IO-Link V1.1 Class A port, USB2.0 port, optional external power supply 24V / 1A $$	IOLA2US-01101 (SiLink2 Master)	1061790	
*	<ul> <li>Connection type head A: Female connector, M12, 5-pin, angled, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 2 m, 5-wire, PVC</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with chemicals, Uncontaminated zones</li> </ul>	YG2A15- 020VB5XLEAX	2096215	
*	<ul> <li>Connection type head A: Female connector, M12, 5-pin, angled, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 5 m, 5-wire, PVC</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with chemicals, Uncontaminated zones</li> </ul>	YG2A15- 050VB5XLEAX	2096216	
*	<ul> <li>Connection type head A: Female connector, M12, 5-pin, angled, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 10 m, 5-wire, PVC</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with chemicals, Uncontaminated zones</li> </ul>	YG2A15- 100VB5XLEAX	2096217	
×.	<ul> <li>Connection type head A: Female connector, M12, 5-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 2 m, 5-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>	YF2A15- 020UB5XLEAX	2095617	

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	Brief description	Туре	Part no.
<b>N</b> O	<ul> <li>Connection type head A: Female connector, M12, 5-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 5 m, 5-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>	YF2A15- 050UB5XLEAX	2095618
¥.	<ul> <li>Connection type head A: Female connector, M12, 5-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 10 m, 5-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>	YF2A15- 100UB5XLEAX	2095619
	<ul> <li>Connection type head A: Female connector, M12, 5-pin, angled, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 2 m, 5-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>	YG2A15- 020UB5XLEAX	2095772
>	<ul> <li>Connection type head A: Female connector, M12, 5-pin, angled, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 5 m, 5-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>	YG2A15- 050UB5XLEAX	2095773
	<ul> <li>Connection type head A: Female connector, M12, 5-pin, angled, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 10 m, 5-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>	YG2A15- 100UB5XLEAX	2095774
N.	<ul> <li>Connection type head A: Female connector, M12, 5-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 2 m, 5-wire, PVC</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with chemicals, Uncontaminated zones</li> </ul>	YF2A15- 020VB5XLEAX	2096239
N°O	<ul> <li>Connection type head A: Female connector, M12, 5-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 5 m, 5-wire, PVC</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with chemicals, Uncontaminated zones</li> </ul>	YF2A15- 050VB5XLEAX	2096240
<b>N</b> <sub>0</sub>	<ul> <li>Connection type head A: Female connector, M12, 5-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 10 m, 5-wire, PVC</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with chemicals, Uncontaminated zones</li> </ul>	YF2A15- 100VB5XLEAX	2096241
Sensor Visuali	zation		
I	<ul> <li>Product category: LED signal lamp</li> <li>Further functions: IO-Link signal lamp, Parameterization via IO-Link, Simple configuration directly via the SOPAS ET user interface, the engineering tool from SICK</li> </ul>	SLT060-0B010J700	6075938

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#### **Recommended services**

Additional services -> www.sick.com/CFP\_Cubic

	Туре	Part no.
Function Block Factory		
<ul> <li>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, Rockwell Automation B&amp;R and more. More information on the FBF can be found <a href="https://fbf.cloud.sick.com" target="_blank">https://fbf.cloud.sick.com</a></li> <li>Provision: Customers can obtain access to the Function Block Factory and the license via <a href="https://fbf.cloud.sick.com" target="_blank">https://fbf.cloud.sick.com</a></li> </ul>	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

