





ULTRASONIC LEVEL SENSOR

ULTRASONIC LEVEL SENSOR



Ordering information

Туре	Part no.
UP56-211115	6073255

Other models and accessories → www.sick.com/UP56



Detailed technical data

Features

Medium	Fluids, bulk solids
Measurement	Switch, Continuous
Measuring range in tank	30 mm 250 mm
Measuring range immersion tube	30 mm 990 mm
Process pressure	0 bar 6 bar Gauge pressure
Process temperature	-25 °C +70 °C
IO-Link	1

Performance

Accuracy of sensor element	≤ 2 % ¹)
Reproducibility	± 0.15 % ¹⁾
Resolution	≤ 0.18 mm
Response time	\leq 68 ms ²)
MTTF	> 100 years
Display	\checkmark

¹⁾ From the full scale value.

 $^{\rm 2)}$ Recovery time 32 ms ... 180 ms according to EMC EN 60947-5-7.

Electronics

Supply voltage	9 V DC 30 V DC ¹⁾
Residual ripple	± 10 %

¹⁾ Reverse-polarity protected.

 $^{2)}$ At 24 V DC without output load.

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Power consumption	\leq 80 mA ²⁾
Protection class	III
Connection type	Round connector M12 x 1, 5-pin
Output signal	1 x push-pull: IO-Link 1.1 (process data, diagnostics, parameterization, data repository)
Hysteresis	3 mm
Output current	200 mA
Time delay before availability	≤ 300 ms
Enclosure rating	IP67
Ultrasonic frequency	320 kHz
Ultrasonic transducer	PTFE coating, FFKM

 $^{(1)}$ Reverse-polarity protected. $^{(2)}$ At 24 V DC without output load.

Mechanics

Process connection	G1A
Housing material	Stainless steel 1.4571, PBT, TPU, FKM
Housing design	Standard
Weight	+ 210 g

Ambient data

Ambient operating temperature	-25 °C +70 °C ¹⁾
Ambient temperature, storage	-40 °C +85 °C

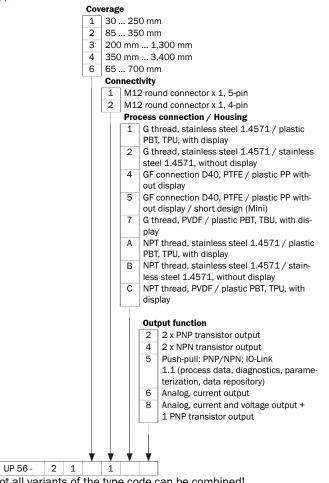
 $^{(1)}$ Temperature compensation at –25 °C ... +50 °C, can be switched off.

Classifications

ECLASS 5.0	27200506
ECLASS 5.1.4	27200506
ECLASS 6.0	27200506
ECLASS 6.2	27200506
ECLASS 7.0	27200506
ECLASS 8.0	27200506
ECLASS 8.1	27200506
ECLASS 9.0	27200506
ECLASS 10.0	27200506
ECLASS 11.0	27200506
ECLASS 12.0	27200506
ETIM 5.0	EC001447
ETIM 6.0	EC001447
ETIM 7.0	EC001447
ETIM 8.0	EC001447
UNSPSC 16.0901	41111950

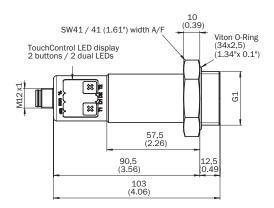
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Type code

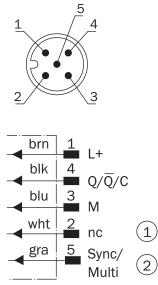


Not all variants of the type code can be combined! Dimensional drawing (Dimensions in mm (inch))

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Connection diagram



① Not assigned

O Synchronization and multiplex mode, Connect+ communication

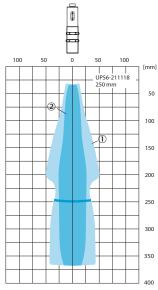
Connection type

Male connector M12, 5-pin



Scanning range

Detection range UP56-211118



If the points named above are located in the radiation cone, reliable detection is guaranteed

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① Example object: aligned plate 500 mm x 500 mm

Pipe diameter 10 mm

Recommended accessories

Other models and accessories → www.sick.com/UP56

	Brief description	Туре	Part no.
Cloning modules			
	Tool for visualization, configuration and cloning, 3-digit LED display, supply voltage: DV 9 V \dots 30 V	Connect+ adapter (CPA)	6037782
Plug connect	ors and cables		
×.	 Connection type head A: Female connector, M12, 5-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 5-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YF2A15- 020UB5XLEAX	2095617
\$ 0	 Connection type head A: Female connector, M12, 5-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 5-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YF2A15- 020VB5XLEAX	2096239
×.	 Connection type head A: Female connector, M12, 5-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 5-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YF2A15- 050UB5XLEAX	2095618
\$	 Connection type head A: Female connector, M12, 5-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 5-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YF2A15- 050VB5XLEAX	2096240
×.	 Connection type head A: Female connector, M12, 5-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 10 m, 5-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YF2A15- 100UB5XLEAX	2095619
\$ 0	 Connection type head A: Female connector, M12, 5-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 10 m, 5-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YF2A15- 100VB5XLEAX	2096241
	 Connection type head A: Female connector, M12, 5-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 5-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YG2A15- 020UB5XLEAX	2095772

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	Brief description	Туре	Part no.
3	 Connection type head A: Female connector, M12, 5-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 5-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YG2A15- 020VB5XLEAX	2096215
	 Connection type head A: Female connector, M12, 5-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 5-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YG2A15- 050UB5XLEAX	2095773
3	 Connection type head A: Female connector, M12, 5-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 5-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YG2A15- 050VB5XLEAX	2096216
>	 Connection type head A: Female connector, M12, 5-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 10 m, 5-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YG2A15- 100UB5XLEAX	2095774
3	 Connection type head A: Female connector, M12, 5-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 10 m, 5-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YG2A15- 100VB5XLEAX	2096217

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For us, that is "Sensor Intelligence."

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Online data sheet

