



UP56-212128

UP56

LEVEL SENSORS





Ordering information

Туре	Part no.
UP56-212128	6048701

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

Illustration may differ



Detailed technical data

Features

Medium	Fluids
Measurement	Switch, Continuous
Measuring range in tank	85 mm 350 mm
Measuring range immersion tube	85 mm 1,500 mm ¹⁾
Process pressure	0 bar 6 bar, gauge pressure
Process temperature	-25 °C +70 °C

¹⁾ At 6 bar gauge.

Performance

Accuracy of sensor element	≤ 2 % ¹⁾
Repeatability	± 0.15 % ¹⁾
Resolution	≤ 0.18 mm
Response time	≤ 84 ms ²⁾

¹⁾ From the full scale value.

Electronics

Supply voltage	9 V DC 30 V DC, Switching output ¹⁾ 15 V DC 30 V DC, Analog output ¹⁾
Residual ripple	± 10 %
Power consumption	≤ 80 mA ²⁾
Electrical connection	Round connector M12 x 1, 5-pin
Output signal	1 x PNP + 4 mA 20 mA / 0 V 10 V ^{3) 4)}
Hysteresis	5 mm

 $^{^{1)}}$ Reverse-polarity protected.

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

²⁾ At 24 V DC without output load.

 $^{^{3)}}$ Short-circuit protected, reversible.

⁴⁾ Automatic switching between voltage and current outputs dependet on load 4 mA ... 20 mA: RL \leq 100 / at 9 V \leq U_B \leq 20 V; RL \leq 500/ at U_B \geq 20 V; 0 V ... 10 V: RL \geq 100 k / at U_B \geq 15 V, short-circuit protected.

Signal voltage HIGH	Uv -3 V
Time delay before availability	≤ 300 ms
Enclosure rating	IP 67
Ultrasonic frequency	320 kHz
Ultrasonic transducer	PTFE coating, FFKM

¹⁾ Reverse-polarity protected.

Mechanics

Process connection	G1A
Housing material	Stainless steel 1.4571
Weight	350 g

Ambient data

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

 $^{^{1)}}$ Temperature compensation at –25 $^{\circ}\text{C} \dots$ +50 $^{\circ}\text{C},$ can be switched off.

Classifications

ECI@ss 5.0	27200506
ECI@ss 5.1.4	27200506
ECI@ss 6.0	27200506
ECI@ss 6.2	27200506
ECI@ss 7.0	27200506
ECI@ss 8.0	27200506
ECI@ss 8.1	27200506
ECI@ss 9.0	27200506
ETIM 5.0	EC002654
ETIM 6.0	EC002654
UNSPSC 16.0901	41111950

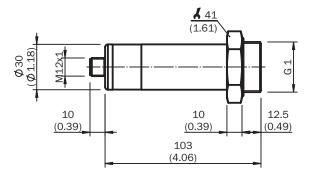
²⁾ At 24 V DC without output load.

³⁾ Short-circuit protected, reversible.

⁴⁾ Automatic switching between voltage and current outputs dependet on load 4 mA ... 20 mA: RL \leq 100 / at 9 V \leq U_B \leq 20 V; RL \leq 500/ at U_B \geq 20 V; 0 V ... 10 V: RL \geq 100 k / at U_B \geq 15 V, short-circuit protected.

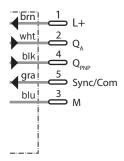
Dimensional drawing (Dimensions in mm (inch))

UP56-211/ 212/ 213 all-metal



Connection diagram

1 x PNP + 4 mA ... 20 mA / 0 V ... 10 V



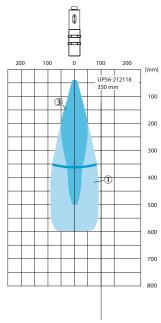
Connection type

Male connector M12, 5-pin



Scanning range

Detection range UP56-212118



- ① Example object: aligned plate 500 mm x 500 mm 3 Pipe diameter 27 mm

Recommended accessories

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

	Brief description	Туре	Part no.
Flanges			
	Welded flange, process connection G 1, Stainless steel 1.4404	BEF-FL-316G10- UP56	4064295
	Welded flange/welded connector, process connection G 2, Stainless steel 1.4404	BEF-FL-316G20- UP56	4063263
Plug connecto	ors and cables		
	Head A: female connector, M12, 5-pin, straight Head B: cable Cable: PVC, unshielded, 2 m	DOL-1205-G02M	6008899
**	Head A: female connector, M12, 5-pin, straight Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 2 m	DOL-1205-G02MC	6025906
	Head A: female connector, M12, 5-pin, straight Head B: cable Cable: PVC, unshielded, 5 m	DOL-1205-G05M	6009868
*	Head A: female connector, M12, 5-pin, straight Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 5 m	DOL-1205-G05MC	6025907

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	Brief description	Туре	Part no.	
	Head A: female connector, M12, 5-pin, straight Head B: cable Cable: PVC, unshielded, 10 m	DOL-1205-G10M	6010544	
*	Head A: female connector, M12, 5-pin, straight Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 10 m	DOL-1205-G10MC	6025908	
-	Head A: female connector, M12, 5-pin, angled Head B: cable Cable: PVC, unshielded, 2 m	DOL-1205-W02M	6008900	
6	Head A: female connector, M12, 5-pin, angled Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 2 m	DOL-1205-W02MC	6025909	
	Head A: female connector, M12, 5-pin, angled Head B: cable Cable: PVC, unshielded, 5 m	DOL-1205-W05M	6009869	
>	Head A: female connector, M12, 5-pin, angled Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 5 m	DOL-1205-W05MC	6025910	
-	Head A: female connector, M12, 5-pin, angled Head B: cable Cable: PVC, unshielded, 10 m	DOL-1205-W10M	6010542	
>	Head A: female connector, M12, 5-pin, angled Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 10 m	DOL-1205-W10MC	6025911	
Programming	rogramming and configuration tools			
	Tool for visualization, configuration and cloning, 3-digit LED display, supply voltage: DV 9 V 30 V $$	Connect+ adapter (CPA)	6037782	

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For us, that is "Sensor Intelligence."

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