

UP56-214178

UP56

LEVEL SENSORS





Ordering information

Туре	Part no.
UP56-214178	6039866

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

Illustration may differ



Detailed technical data

Features

Medium	Fluids, bulk solids
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Measurement	Switch, Continuous
Measuring range in tank	350 mm 3,400 mm
Measuring range for bulk material	350 mm 3,400 mm
Measuring range immersion tube	350 mm 8,000 mm ¹⁾
Measuring range for liquids	350 mm 8,000 mm ¹⁾
Process pressure	0 bar 6 bar
Process temperature	-25 °C +70 °C

 $^{^{1)}}$ At 6 bar gauge.

Performance

Accuracy of sensor element	≤ 2 % ¹⁾
Reproducibility	± 0.15 % ¹⁾
Resolution	≤ 0.18 mm
Response time	\leq 240 ms ²)

 $^{^{1)}}$ From the full scale value.

Electronics

Supply voltage	9 V DC 30 V DC ¹⁾
Residual ripple	± 10 %
Power consumption	≤ 80 mA ²⁾
Connection type	Round connector M12 x 1, 5-pin
Output signal	1 x PNP + 4 mA 20 mA / 0 V 10 V

 $^{^{1)}}$ 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.

Hysteresis	50 mm
Signal voltage HIGH	Uv -3 V
Time delay before availability	≤ 300 ms
Enclosure rating	IP67
Ultrasonic frequency	120 kHz
Ultrasonic transducer	PTFE coating, FFKM

¹⁾ Reverse-polarity protected.

Mechanics

Process connection	G 2 A PN 6
Housing material	PVDF, PBT, TPU
Weight	350 g

Ambient data

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

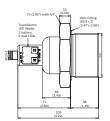
 $^{^{1)}}$ Temperature compensation at -25 °C ... +50 °C, can be switched off.

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

Dimensional drawing (Dimensions in mm (inch))

UP56-214



²⁾ At 24 V DC without output load.

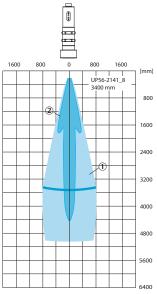
Connection type

Male connector M12, 5-pin



Scanning range

Detection range UP56-2141_8



- ① Example object: aligned plate 500 mm x 500 mm
- ② Pipe diameter 10 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	Plug connectors and cables			
The state of the s	Head A: female connector, M12, 5-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m	YF2A15- 020UB5XLEAX	2095617	

	Brief description	Туре	Part no.
No.	Head A: female connector, M12, 5-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YF2A15- 020VB5XLEAX	2096239
	Head A: female connector, M12, 5-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m	YF2A15- 050UB5XLEAX	2095618
	Head A: female connector, M12, 5-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m	YF2A15- 050VB5XLEAX	2096240
	Head A: female connector, M12, 5-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 m	YF2A15- 100UB5XLEAX	2095619
	Head A: female connector, M12, 5-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 10 m	YF2A15- 100VB5XLEAX	2096241
	Head A: female connector, M12, 5-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m	YG2A15- 020UB5XLEAX	2095772
	Head A: female connector, M12, 5-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YG2A15- 020VB5XLEAX	2096215
	Head A: female connector, M12, 5-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m	YG2A15- 050UB5XLEAX	2095773
-	Head A: female connector, M12, 5-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m	YG2A15- 050VB5XLEAX	2096216
	Head A: female connector, M12, 5-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 m	YG2A15- 100UB5XLEAX	2095774
	Head A: female connector, M12, 5-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 10 m	YG2A15- 100VB5XLEAX	2096217
Programming 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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