

UP56-2111B8 UP56

LEVEL SENSORS





Ordering information

Туре	Part no.
UP56-2111B8	6076769

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

Performance

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

¹⁾ From the full scale value.

Electronics

Supply voltage	9 V DC 30 V DC ¹⁾
Residual ripple	± 10 %
Power consumption	≤ 80 mA ²⁾
Protection class	III
Connection type	Round connector M12 x 1, 5-pin
Output signal	1 x PNP + 4 mA 20 mA / 0 V 10 V ^{3) 4)}
Hysteresis	3 mm

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

 $^{^{\}rm 2)}$ Recovery time 32 ms ... 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.

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.

Mechanics

Process connection	2" NPT
Housing material	Stainless steel 1.4571, 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 $^{\circ}\text{C}$... +50 $^{\circ}\text{C}$, 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

Type code

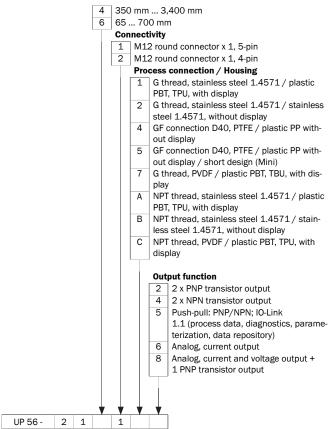
- Coverage

 1 30 ... 250 mm
 2 85 ... 350 mm
 3 200 mm ... 1,300 mm

²⁾ At 24 V DC without output load.

³⁾ Short-circuit protected, reversible.

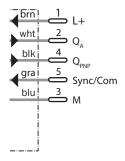
⁴⁾ Automatic switching between voltage and current outputs dependet on load 4 mA ... 20 mA: RL \leq 100 / at 9 V \leq U_B \leq 20 V; RL \leq 500/ at U_B \geq 20 V; 0 V ... 10 V: RL \geq 100 k / at $U_B \ge 15$ V, short-circuit protected.



Not all variants of the type code can be combined!

Connection diagram

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



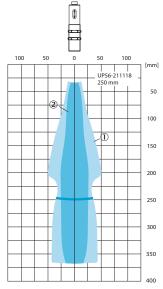
Connection type

Male connector M12, 5-pin



Scanning range

Detection range UP56-211118



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

- 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

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	Brief description	Туре	Part no.
Cloning modules			
	Tool for visualization, configuration and cloning, 3-digit LED display, supply voltage: DV 9 V 30 V $$	Connect+ adapter (CPA)	6037782
	 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: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation 	YF2A15- 020UB5XLEAX	2095617
	 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, Uncontaminated zones 	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: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation 	YF2A15- 050UB5XLEAX	2095618

	Brief description	Туре	Part no.
	 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, Uncontaminated zones 	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: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation 	YF2A15- 100UB5XLEAX	2095619
	 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, Uncontaminated zones 	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: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation 	YG2A15- 020UB5XLEAX	2095772
5	 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, Uncontaminated zones 	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: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation 	YG2A15- 050UB5XLEAX	2095773
-	 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, Uncontaminated zones 	YG2A15- 050VB5XLEAX	2096216
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, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation 	YG2A15- 100UB5XLEAX	2095774
	 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, Uncontaminated zones 	YG2A15- 100VB5XLEAX	2096217

SICK AT A GLANCE

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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.

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