



UP56-2141B2

UP56

LEVEL SENSORS





Ordering information

Туре	Part no.
UP56-2141B2	6066586

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



Detailed technical data

Features

Medium	Fluids, bulk solids
Measurement	Switch, Continuous
Measuring range in tank	350 mm 3,400 mm
Measuring range immersion tube	350 mm 8,000 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	\leq 240 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	2 x PNP
Hysteresis	50 mm
Output current	200 mA
Time delay before availability	≤ 300 ms

 $^{^{1)}}$ 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.

Enclosure rating	IP67
Ultrasonic frequency	120 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	1,200 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



4 350 mm ... 3,400 mm

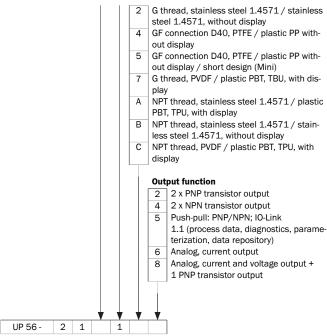
6 65 ... 700 mm

Connectivity

1 M12 round connector x 1, 5-pin 2 M12 round connector x 1, 4-pin Process connection / Housing

1 G thread, stainless steel 1.4571 / plastic PBT, TPU, with display

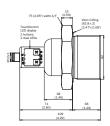
²⁾ At 24 V DC without output load.



Not all variants of the type code can be combined!

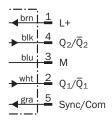
Dimensional drawing (Dimensions in mm (inch))

UP56-214



Connection diagram

2 x transistor switching output



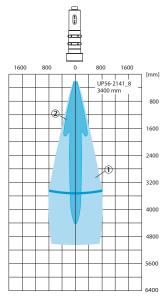
Connection type

Male connector M12, 5-pin



Scanning range

If the following destinations 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

	Brief description	Туре	Part no.
	bilei description	туре	raitilo.
Cloning modu	les		
	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
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, 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
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, 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
	 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

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

