

# UP56-211112

UP56

**LEVEL SENSORS** 





## Ordering information

Туре	part no.
UP56-211112	6041661

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 <sup>1)</sup>
Process temperature	-25 °C +70 °C
Display	With display

<sup>&</sup>lt;sup>1)</sup> Gauge pressure.

#### Performance

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

 $<sup>^{1)}</sup>$  From the full scale value.

#### **Electronics**

Communication interface	-
Supply voltage	9 V DC 30 V DC <sup>1)</sup>
Residual ripple	± 10 %
Power consumption	≤ 80 mA <sup>2)</sup>

<sup>&</sup>lt;sup>1)</sup> Reverse polarity protected.

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

<sup>&</sup>lt;sup>2)</sup> At 24 V DC without output load.

Protection class	III
Connection type	Round connector M12 x 1, 5-pin
Output signal	2 x PNP
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

#### Mechanics

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

## Ambient data

Ambient operating temperature	-25 °C +70 °C <sup>1)</sup>
Ambient temperature, storage	-40 °C +85 °C

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

## Certificates

EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
China RoHS	✓
cULus certificate	✓
Information according to Art. 3 of Data Act (Regulation EU 2023/2854)	✓

## 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

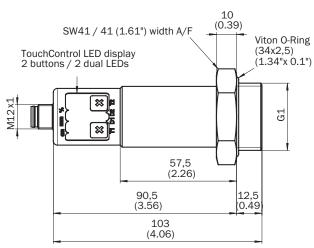
<sup>1)</sup> Reverse polarity protected.
2) At 24 V DC without output load.

## UP56-211112 | UP56

**LEVEL SENSORS** 

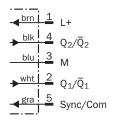
ECLASS 12.0	27200506
ETIM 5.0	EC001447
ETIM 6.0	EC001447
ETIM 7.0	EC001447
ETIM 8.0	EC001447
UNSPSC 16.0901	41111950

## Dimensional drawing UP56-211/212/213



Dimensions in mm (inch)

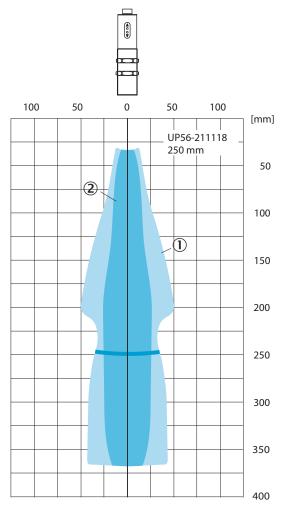
## Connection diagram 2 x transistor switching output



## Connection type Plug, 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

	Brief description	Туре	part no.
programming devices			
1	<ul> <li>Product segment: Integration modules and adapters</li> <li>Product family: Cloning modules</li> <li>Description: Tool for visualization, configuration and cloning, 3-digit LED display, supply voltage: DV 9 V 30 V</li> </ul>	Connect+ adapter (CPA)	6037782

	Brief description	Туре	part no.		
connectors ar	connectors and cables				
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: 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		
0	<ul> <li>Connection type head A: Female connector, M12, 5-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 2 m, 5-wire, PVC</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with chemicals, Uncontaminated zones</li> </ul>	YF2A15-020VB5XLEAX	2096239		
	<ul> <li>Connection type head A: Fernale connector, M12, 5-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 5 m, 5-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>	YF2A15-050UB5XLEAX	2095618		
	<ul> <li>Connection type head A: Female connector, M12, 5-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 5 m, 5-wire, PVC</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with chemicals, Uncontaminated zones</li> </ul>	YF2A15-050VB5XLEAX	2096240		
	<ul> <li>Connection type head A: Female connector, M12, 5-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 10 m, 5-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>	YF2A15-100UB5XLEAX	2095619		
	<ul> <li>Connection type head A: Female connector, M12, 5-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 10 m, 5-wire, PVC</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with chemicals, Uncontaminated zones</li> </ul>	YF2A15-100VB5XLEAX	2096241		
	<ul> <li>Connection type head A: Female connector, M12, 5-pin, angled, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 2 m, 5-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>	YG2A15-020UB5XLEAX	2095772		
1	<ul> <li>Connection type head A: Female connector, M12, 5-pin, angled, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 2 m, 5-wire, PVC</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with chemicals, Uncontaminated zones</li> </ul>	YG2A15-020VB5XLEAX	2096215		
	<ul> <li>Connection type head A: Female connector, M12, 5-pin, angled, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 5 m, 5-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>	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	<ul> <li>Connection type head A: Female connector, M12, 5-pin, angled, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 10 m, 5-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> </ul>	YG2A15-100UB5XLEAX	2095774		

	Brief description	Туре	part no.
	Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation		
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, Uncontaminated zones	YG2A15-100VB5XLEAX	2096217
	<ul> <li>Connection type head A: Female connector, M12, 5-pin, angled, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 0.6 m, 5-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>	YG2A15- C60UB5XLEAX	2145540
	<ul> <li>Connection type head A: Female connector, M12, 5-pin, angled, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 3 m, 5-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>	YG2A15-030UB5XLEAX	2145543
	<ul> <li>Connection type head A: Female connector, M12, 5-pin, angled, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 1 m, 5-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>	YG2A15-010UB5XLEAX	2145541
-	<ul> <li>Connection type head A: Female connector, M12, 5-pin, angled, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 0.6 m, 5-wire, PVC</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with chemicals, Uncontaminated zones</li> </ul>	YG2A15- C60VB5XLEAX	2145573
3	<ul> <li>Connection type head A: Female connector, M12, 5-pin, angled, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 1 m, 5-wire, PVC</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with chemicals, Uncontaminated zones</li> </ul>	YG2A15-010VB5XLEAX	2145574
1	Connection type head A: Female connector, M12, 5-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 3 m, 5-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals, Uncontaminated zones	YG2A15-030VB5XLEAX	2145575
<b>P</b> (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: 0.6 m, 5-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals, Uncontaminated zones	YF2A15- C60VB5XLEAX	2145570
<b>P</b> (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: 3 m, 5-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals, Uncontaminated zones	YF2A15-030VB5XLEAX	2145572

# 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."

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