

UP56-212115 UP56

**LEVEL SENSORS** 





# Ordering information

Туре	Part no.
UP56-212115	6073256

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



#### Detailed technical data

#### **Features**

Medium	Fluids, bulk solids
Measurement	Switch, Continuous
Measuring range in tank	85 mm 350 mm
Measuring range immersion tube	85 mm 1,500 mm
Process pressure	0 bar 6 bar Gauge pressure
Process temperature	-25 °C +70 °C
IO-Link	<b>√</b>

#### Performance

Accuracy of sensor element	≤ 2 % <sup>1)</sup>
Reproducibility	± 0.15 % <sup>1)</sup>
Resolution	≤ 0.18 mm
Response time	≤ 84 ms <sup>2)</sup>
MTTF	> 100 years
Display	✓

<sup>1)</sup> From the full scale value.

#### Electronics

Communication interface	IO-Link
Supply voltage	9 V DC 30 V DC <sup>1)</sup>

 $<sup>^{1)}</sup>$  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.

Residual ripple	± 10 %
Power consumption	≤ 80 mA <sup>2)</sup>
Protection class	III
Connection type	Round connector M12 x 1, 5-pin
Output signal	1 x push-pull: IO-Link 1.1 (process data, diagnostics, parameterization, data repository)
Hysteresis	5 mm
Output current	200 mA
Time delay before availability	≤ 300 ms
Enclosure rating	IP67
Ultrasonic frequency	320 kHz
Ultrasonic transducer	PTFE coating, FFKM

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

# Mechanics

Process connection	G1A
Housing material	Stainless steel 1.4571, PBT, TPU, FKM
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

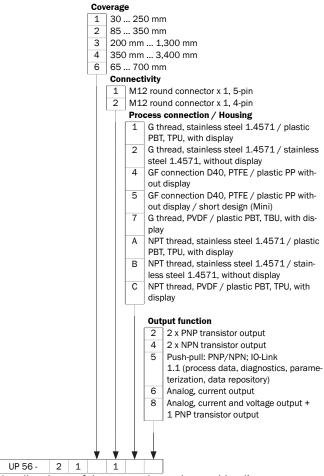
 $<sup>^{1)}</sup>$  Temperature compensation at –25 °C ... +50 °C, can be switched off.

# 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

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

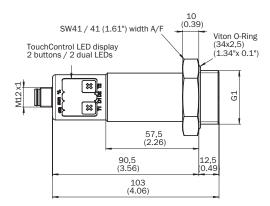
#### Type code



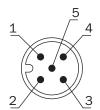
Not all variants of the type code can be combined!

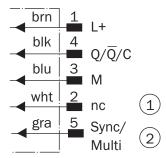
Dimensional drawing (Dimensions in mm (inch))

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# Connection diagram





- ① Not assigned
- ② Synchronization and multiplex mode, Connect+ communication

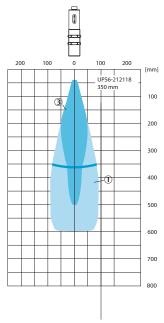
# Connection type

Male connector M12, 5-pin



# Scanning range

Detection range UP56-212118



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
- ③ Pipe diameter 27 mm

#### Recommended accessories

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

	Brief description	Туре	Part no.		
Cloning modu	Cloning modules				
	Tool for visualization, configuration and cloning, 3-digit LED display, supply voltage: DV 9 V 30 V $$	Connect+ adapter (CPA)	6037782		
No.	<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, 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- 020UB5XLEAX	2095617		
	<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		

	Brief description	Туре	Part no.
No.	<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, 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
No.	<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
	<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
9	<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
5	<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, PVC</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with chemicals, Uncontaminated zones</li> </ul>	YG2A15- 050VB5XLEAX	2096216
>	<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> <li>Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>	YG2A15- 100UB5XLEAX	2095774

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<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, PVC</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with chemicals, Uncontaminated zones</li> </ul>	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

