



UM30-215115

UM30

ULTRASONIC DISTANCE SENSORS

SICK
Sensor Intelligence.



Ordering information

Type	part no.
UM30-215115	6037673

Other models and accessories → www.sick.com/UM30



Detailed technical data

Features

Operating range, limiting range	600 mm ... 6,000 mm, 8,000 mm
Target	Natural objects
Resolution	≥ 0.18 mm
Repeatability	± 0.15 % ¹⁾
Measurement accuracy	± 1 % ^{2) 3)}
Temperature compensation	✓
Response time	240 ms
Switching frequency	3 Hz
Output time	60 ms
Ultrasonic frequency (typical)	80 kHz
Detection area (typical)	See diagrams
Additional function	Adjustable operating modes: Switching point (DtO) / Switching window/Background (ObSB), teach-in of digital output, set levels of digital outputs, invertable digital output, set on delay digital output, synchronization of up to 50 sensors, multiplexing: no cross talk of up to 50 sensors, adjustable measurement filters: Measured value filters/Filter strength/Foreground suppression/Detection area/Sensitivity and sound beam, Display (can be deactivated), reset to factory default
Safety-related parameters	
MTTF _D	101 years
DC _{avg}	0%

¹⁾ In relation to the current measured value, minimum value ≥ resolution.

²⁾ Referring to current measurement value.

³⁾ Temperature compensation can be switched off, without temperature compensation: 0.17 % / K.

Interfaces

Digital output	Number	1 ¹⁾
	Type	NPN
	Maximum output current I _A	≤ 200 mA
Multifunctional input (MF)		1 x MF
Hysteresis		100 mm

¹⁾ NPN: HIGH = ≤ 2 V / LOW = U_V.

Electronics

Supply voltage U_B	DC 9 V ... 30 V ¹⁾
Power consumption	≤ 2.4 W ²⁾
Initialization time	< 300 ms
Indication	LED display, 2 x LED
Enclosure rating	IP65 / IP67
Protection class	III

¹⁾ Limit values, reverse-polarity protected Operation in short-circuit protected network: max. 8 A, class 2.

²⁾ Without load.

Mechanics

Dimensions (W x H x D)	65 mm x 65 mm x 105 mm
Design	Cylindrical
Sending axis	Straight
Housing material	Metal (nickel-plated brass, PBT, ultrasonic transducer: polyurethane foam, glass epoxy resin)
Weight	270 g
Thread size	M30 x 1.5
Connection type	Male connector, M12, 5-pin

Ambient data

Ambient temperature, operation	-25 °C ... +70 °C
Ambient temperature, storage	-40 °C ... +85 °C

Certificates

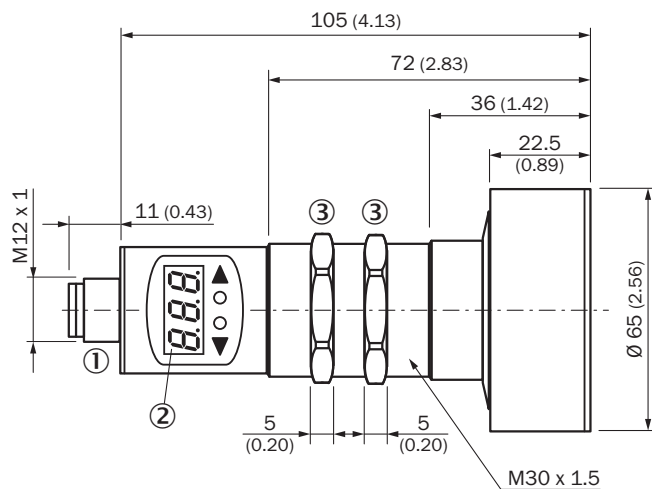
EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China RoHS	✓
cULus certificate	✓

Classifications

ECLASS 5.0	27270804
ECLASS 5.1.4	27270804
ECLASS 6.0	27270804

ECLASS 6.2	27270804
ECLASS 7.0	27270804
ECLASS 8.0	27270804
ECLASS 8.1	27270804
ECLASS 9.0	27270804
ECLASS 10.0	27270804
ECLASS 11.0	27270804
ECLASS 12.0	27272806
ETIM 5.0	EC001846
ETIM 6.0	EC001846
ETIM 7.0	EC001846
ETIM 8.0	EC001846
UNSPSC 16.0901	41111960

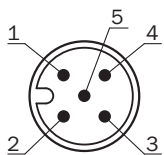
Dimensional drawing UM30-215



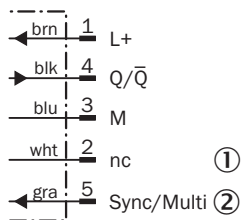
Dimensions in mm (inch)

- ① Connection
- ② Display
- ③ Mounting nuts, SW 36 mm

Connection type



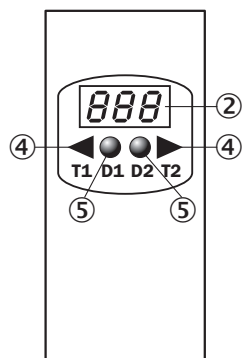
Connection diagram UM30-21x111 UM30-21x114 Connector M12, 5-pin



① Not assigned

② Synchronization and multiplex mode, Connect+ communication

Adjustment possible

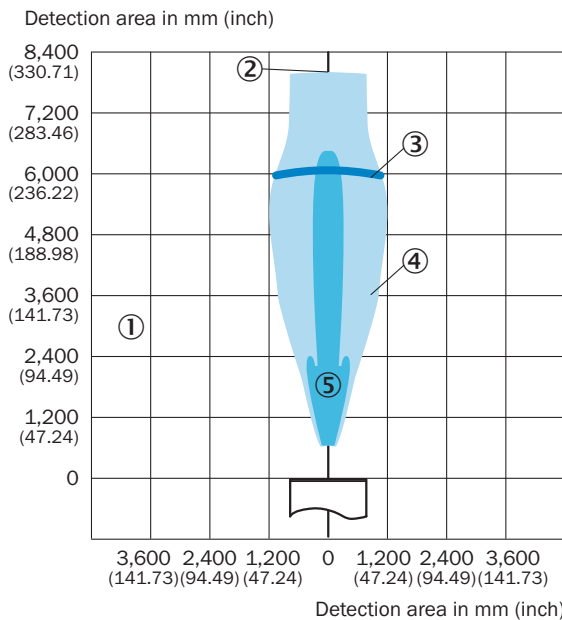


② Display

④ Control elements

⑤ Status indicators

Detection area UM30-215, UC30-215



- ② Limiting range
- ③ operating range
- ④ example object: aligned plate 500 mm x 500 mm
- ⑤ example object: pipe with 27 mm diameter

Recommended accessories

Other models and accessories → www.sick.com/UM30

	Brief description	Type	part no.
programming devices			
	Product segment: Integration modules and adapters Product family: Cloning modules Description: Tool for visualization, configuration and cloning, 3-digit LED display, supply voltage: DV 9 V ... 30 V	Connect+ adapter (CPA)	6037782
Mounting systems			
	Description: Mounting bracket for M30 sensors Material: Steel Details: Steel, zinc coated Items supplied: Without mounting hardware	BEF-WN-M30	5308445
connectors and cables			
	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: 0.6 m, 5-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals, Uncontaminated zones	YF2A15-C60VB5XLEAX	2145570
	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

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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.

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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