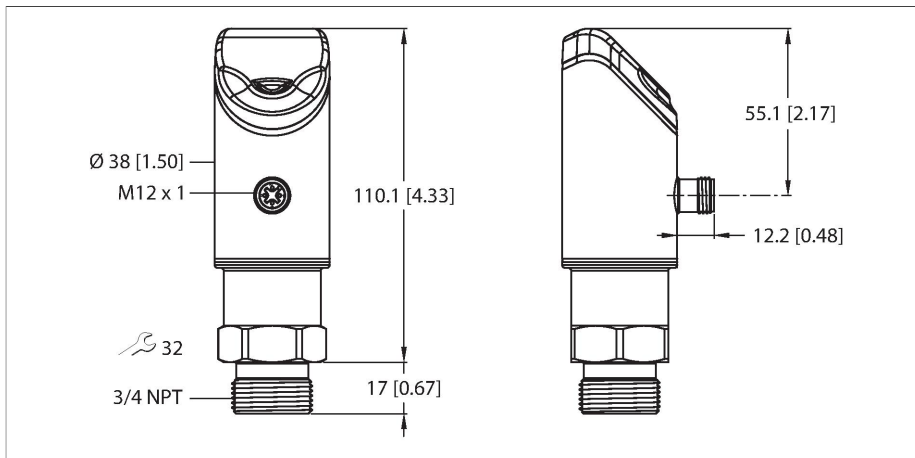


LUS211-130-34-2UPN8-H1141

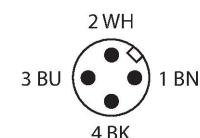
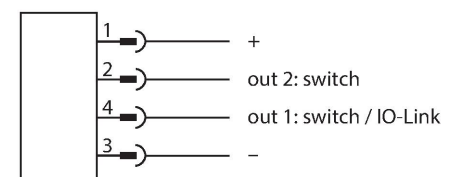
Ultrasonic Sensor – Level Control



Features

- 4-digit, two-colored, 14-segment display, rotatable by 180°
- Housing is rotatable after plugging the process connection
- 3/4" NPT process connection
- Blind zone: 13 cm
- Range: 130 cm
- Resolution: 1 mm
- Cone angle of sonic cone: 16°
- 2 × switching outputs, PNP/NPN
- NO/NC programmable
- Transmission of process value and parametrization via IO-Link

Wiring diagram



Functional principle

Ultrasonic sensors capture a multitude of objects contactlessly and wear-free with ultrasonic waves. It does not matter whether the object is transparent or opaque, metallic or non-metallic, firm, liquid or powdery. Even environmental conditions such as spray, dust or rain hardly affect their function. The sonic cone diagram indicates the detection range of the sensor. In accordance

Technical data

Type	LUS211-130-34-2UPN8-H1141
Ident. no.	100003166
Ultrasonic data	
Function	Ultrasonic diffuse mode sensor
Range	130...1300 mm
Resolution	1 mm
Minimum switching range	10 mm
Ultrasound frequency	200 kHz
Temperature drift	± 1.5 % of full scale
Edge lengths of the nominal actuator	100 mm
Approach speed	≤ 10 m/s
Pass speed	≤ 2 m/s
Electrical data	
Operating voltage	10...33 VDC
No-load current	≤ 150 mA
Load resistance	≤ 1000 Ω
Residual current	≤ 0.1 mA
Response time typical	< 90 ms
Readiness delay	≤ 300 ms
Communication protocol	IO-Link
Output function	NO/NC, PNP
Output 1	Switching output or IO-Link mode
Output 2	Switching output
Switching frequency	≤ 6.5 Hz
Hysteresis	≤ 10 mm
Voltage drop at I _a	≤ 2.5 V

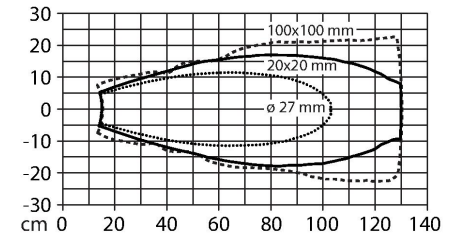
Technical data

Short-circuit protection	yes
Reverse polarity protection	yes
Setting option	Capacitive Sensor IO-Link
IO-Link	
IO-Link specification	V 1.1
IO-Link port type	Class A
Communication mode	COM 2 (38.4 kBaud)
Process data width	32 bit
Measured value information	15 bit
Switchpoint information	4 bit
Frame type	2.2
Minimum cycle time	5 ms
Function Pin 4	IO-Link
Function Pin 2	DI
Maximum cable length	20 m
Profile support	Smart Sensor Profil
Included in the SIDI GSDML	Yes
Mechanical data	
Design	Smooth barrel, LUS
Radiation direction	straight
Dimensions	Ø 38 x 127.1 mm
Housing material	Stainless-steel/Plastic, 1.4404 (AISI 316L)/Grilamid TR90 UV PA
Transducer material	Plastic, Epoxyd resin and PU foam
Electrical connection	Connectors, M12 × 1, 4-wire
Process connection	3/4" NPT
Ambient temperature	-25...+70 °C
Protection class	IP67 IP69K
	Not assessed by UL
Tests/approvals	
Declaration of conformity EN ISO/IEC	EN 60947-5-2

with standard EN 60947-5-2, quadratic targets in a range of sizes (20 × 20 mm, 100 × 100 mm) and a round rod with a diameter of 27 mm are used.

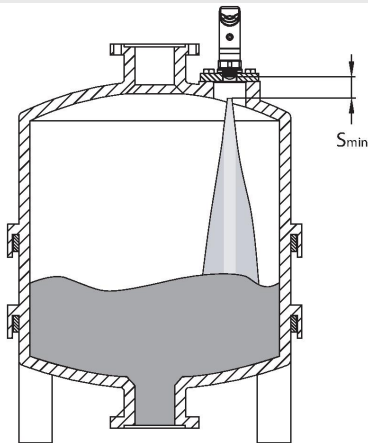
Important: The detection ranges for other targets may differ from those for standard targets due to the different reflection properties and geometries.

Sonic Cone



Mounting instructions

Mounting instructions/Description



Accessories

Dimension drawing	Type	Ident. no.	
	RKC4.4T-2/TEL	6625013	Connection cable, female M12, straight, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com
	WKC4.4T-2/TEL	6625025	Connection cable, female M12, angled, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com
	RKC4.4T-2-RSC4.4T/TEL	6625208	Connection cable, M12 female plug, straight, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com