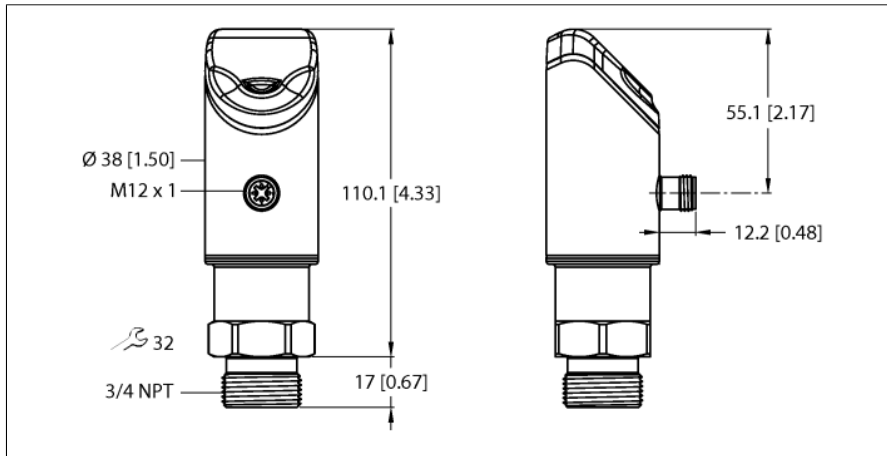


Ultrasonic Sensor Level Control LUS211-130-34-2UPN8-H1141



- 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

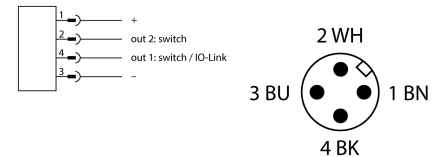
Type designation LUS211-130-34-2UPN8-H1141
Ident no. 100003166

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

Operating voltage 18...33 VDC
No-load current I_0 ≤ 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_0 ≤ 2.5 V
Short-circuit protection yes
Reverse polarity protection yes

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

Wiring Diagram



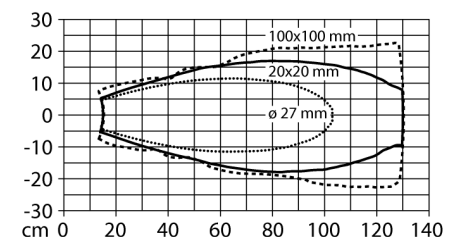
Functional principle

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 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



Ultrasonic Sensor

Level Control

LUS211-130-34-2UPN8-H1141

Design	Smooth barrel, LUS
Radiation direction	straight
Dimensions	127.1 x Ø 38 mm
Housing material	Stainless-steel/Plastic, 1.4404 (AISI 316L)/Grilamid TR90 UV
Transducer material	Plastic, Epoxyd resin and PU foam
Electrical connection	Connectors, M12 × 1, 4-wire
Protection class	IP67 IP69K
Ambient temperature	-25...+70 °C
Declaration of conformity EN ISO/IEC	EN 60947-5-2

Ultrasonic Sensor
Level Control
LUS211-130-34-2UPN8-H1141

