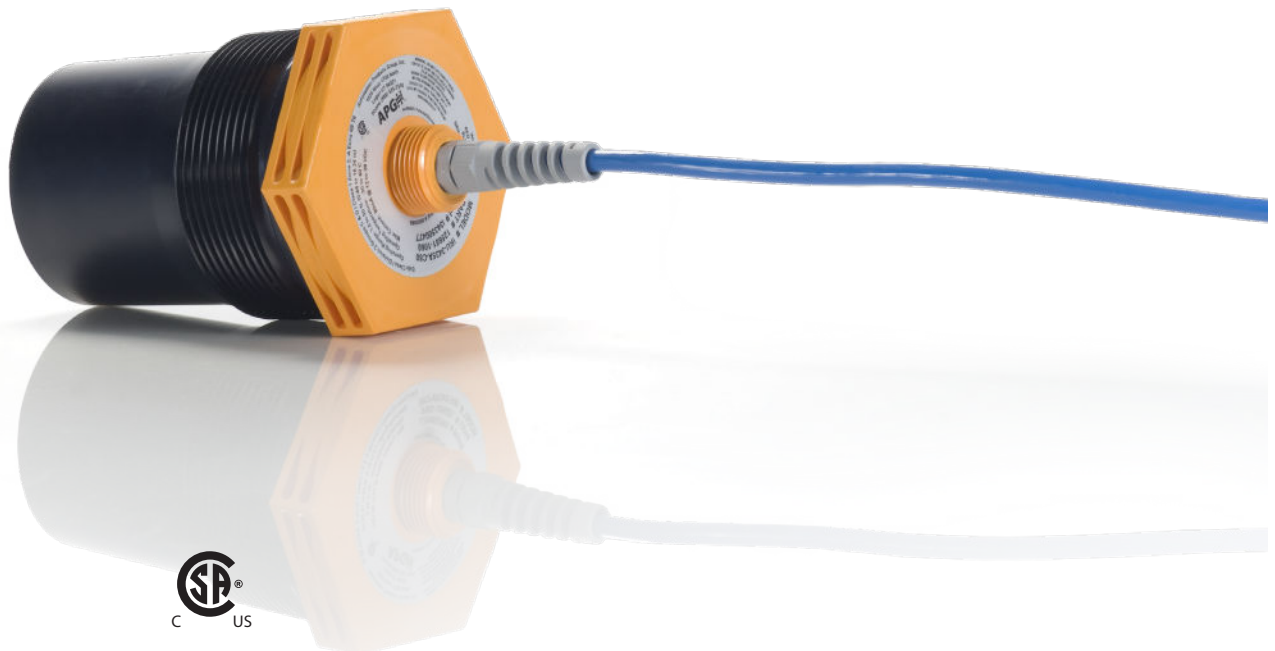


IRU-3430 Series

Long-Range Non-Incendive Ultrasonic Level Sensor
with 4-20 mA Output

Datasheet

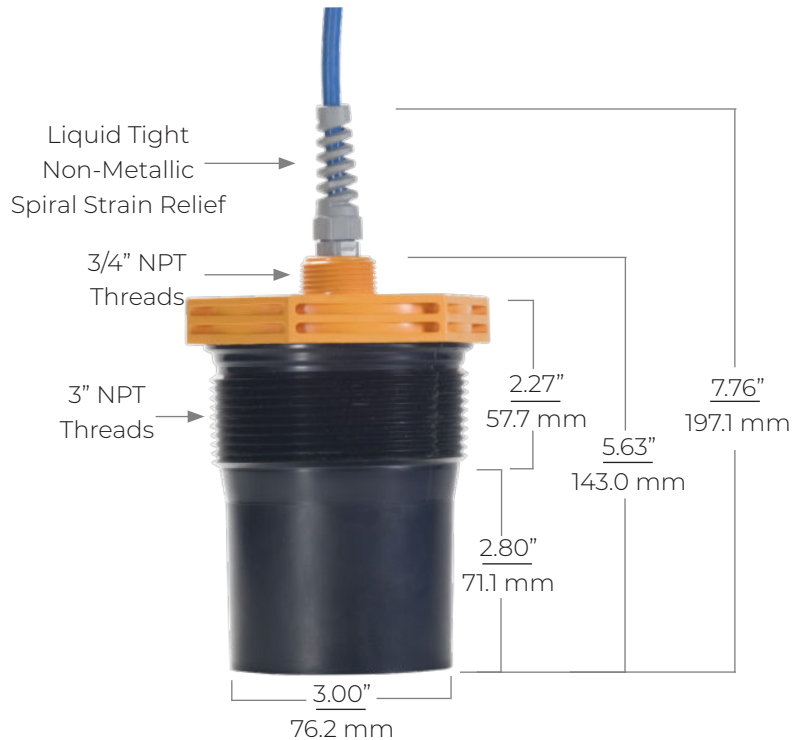


The IRU-3430 series provides a non-contact method of detecting distance and proximity, with on-board level and volume calculations. With built-in technology to compensate for unpredictable variables such as humidity, temperature, and agitators, the IRU-3430 is designed to excel in long-range applications, like crane collision-avoidance.

Features

- Range: 1.25 - 50 ft. (0.4 - 15.2 m) for liquids and solid targets
- AutoSense Software for hassle-free setup
- Internal temperature compensation
- Works on liquids, solids, and bulk solids
- Class I Div 2 Non-incendive for 4-20 mA output
- IP65 Enclosure rating: dust-tight, protected against water jets

IRU-3430 SPECIFICATIONS



Performance

- Operating Range
 - 1.25 - 50 ft. (0.4 - 15.2 m) for liquid and solid targets
 - 1.25 - 25 ft. (0.4 - 7.6 m) for bulk solids
- Beam Pattern: 9° off axis
- Internal Temperature Compensation
- Frequency: 43 kHz
- Accuracy: $\pm 0.25\%$ of detected range
- Resolution: 0.1 in. (2.5 mm)
- Response Time: Programmable (100 ms minimum @ 50 ft.)

Connectivity

- Output:
 - 4-20 mA
 - 4-20 mA with (2) NPN outputs

Environmental

- Enclosure Protection: IP65
- Operating/Compensated Temperature Range:
 - 20° to 140°F (-30° to 60°C)

Electrical

- Total Current Draw: 75 mA @ 24 VDC
- Operational Supply Voltage: 12-28 VDC
- Programming Supply Voltage: 15-28 VDC
- Wiring Connection:
 - 3 or 5-conductor shielded cable
 - 4 or 5-pin micro connector

Programming

- Interface with RST-3002 Programmer (purchase separately)
 - Interfaces with 32- and 64-bit operating systems
- User selected units of measure

Physical

- PC/PET housing
- Transducer Type: Ceramic

Certification

- IP65
- CSA:
 - Inputs: 12 - 28 VDC; Outputs: 4-20 mA, NPN
 - Class I Division 2 Groups C & D T6 (Ta 60°C)
 - Ex nA IIB T6
 - Class I, Zone 2; AEx nA IIB T6

COMMON MODEL CONFIGURATIONS

Model Number	Model Description
IRU-3433-C6	1.25 - 50 ft range, 43 kHz, 3" MNPT, 4-20 mA Output, 6 ft cable
IRU-3433-M	1.25 - 50 ft range, 43 kHz, 3" MNPT, 4-20 mA Output, Micro connector
IRU-3435-C6	1.25 - 50 ft range, 43 kHz, 3" MNPT, 4-20 mA / 2 NPN Outputs, 6 ft cable
IRU-3435-M	1.25 - 50 ft range, 43 kHz, 3" MNPT, 4-20 mA / 2 NPN Outputs, Micro connector

MODEL CONFIGURATION OPTIONS

Model Number: IRU - 343 -
A B

A. Output

- 3** 4-20 mA
- 5** 4-20 mA with (2) NPN outputs

B. Cable/Micro Connector

- CL** Cable (Specify L=length in feet)
Standard 6 feet of cable
- M** Micro connector

IRU-3430 ACCESSORIES

Please order separately, by part number.

Description	Part Number
Over Molded Extension Cables with Foil Shield	
4 Conductor	
Straight, 2 m	135407-0002
Right Angle, 2 m	135407-1002
Straight, 5 m	135407-0005
Right Angle, 5 m	135407-1005
5 Conductor	
Straight, 2 m	135415-0002
Right Angle, 2 m	135415-1002
Straight, 5 m	135415-0005
Right Angle, 5 m	135415-1005
Programming Module	
RST-3002 (USB - 32 and 64 bit compatible)	125389-1000



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