

IRU-6429 Ultrasonic Level Sensor

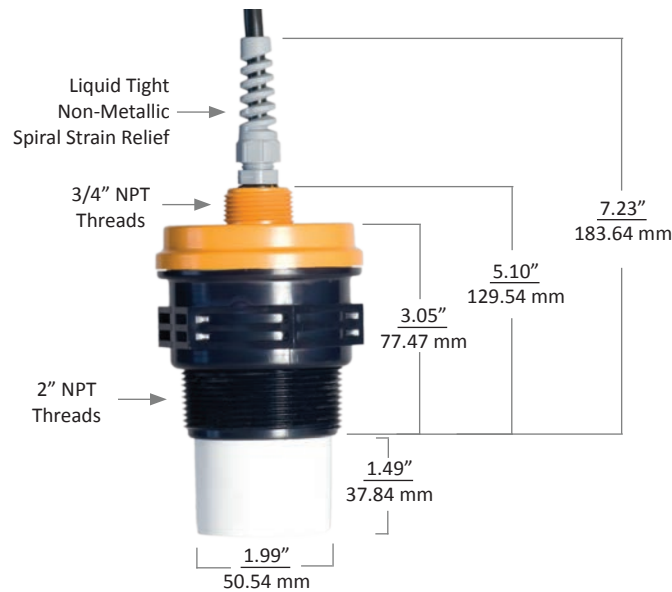


The IRU-6429 series provides a non-contact method of detecting level, presence/absence detection, volume, proximity and distance. With built in technology to compensate for unpredictable variables such as humidity, temperature and agitators the IRU-6429 is the right sensor for your application.

Features

- AutoSense Software for hassle-free setup
- Internal Temperature Compensation
- Works on solids and liquids
- Excitation line to wake up sensor

IRU-6429 Specifications



Performance

- Operating Range
1 - 30 ft. (0.3 - 9.1 m)
- Beam Pattern: 9° off axis
- Internal Temperature Compensation
- Frequency: 69 kHz
- Accuracy: $\pm 0.25\%$ of detected range
- Resolution: 0.1 in. (2.5 mm)
- Response Time: Programmable (20 ms minimum)

Connectivity

- Output:
0-2.5 V / 0-5 V
RS-232 (6429S only)
- Input
Excitation for data logging

Environmental

- Ratings: IP65
- Operating Temp: -40° - 140°F (-40° - 60°C)

Electrical

- Total Current Draw: 75 mA @ 24 VDC and 4 Hz
- Supply Voltage: 12-28 VDC
- Wiring Connection:
4 or 5 conductor shielded cable
5 or 8 pin micro connector

Programming

- Interface with RST-3001/3002 Programmer
(purchase separately - powered by USB)
-The RST-3001 is 32 bit only
-The RST-3002 is 32 and 64 bit compatible
- User selected units of measure

Physical

- PVDF (Kynar®) transducer housing
- PC/PET upper housing
- Transducer Type: Ceramic, PVDF faced

Certification

- CSA General Purpose
- IP65

Common Model Configurations

Model Number	Model Description
IRU-6429-C6	1 - 30 ft range, 69 kHz, 2" MNPT, 0-2.5 V / 0-5V Output, 6 ft cable
IRU-6429-M	1 - 30 ft range, 69 kHz, 2" MNPT, 0-2.5 V / 0-5V Output, Microconnector

IRU-6429 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-3001 (USB - 32 bit only)	125389
RST-3002 (USB - 32 and 64 bit compatible)	125389-1000

APG

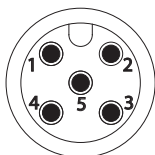
A. Output

- ### B. Cable/Microconector

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

IRU-6429	
Red	+24 VDC
Black	Ground
White	Voltage Out
Green	Analog Ground
Orange	Excitation

IRU-6429-M	
1. Brown	+24 VDC
2. White	Voltage Out
3. Blue	Ground
4. Black	Analog Ground
5. Grey	Excitation



IRU-6429S			
Red	+24 VDC	Green	Analog Ground
Black	Ground	Brown	RS-232 Ground
Orange	Excitation	Yellow	RS-232 TX
White	Voltage Out	Blue	RS-232 RX

IRU-6429S-M			
1 White	V Out	7 Blue	Ground
2 Brown	+24 VDC	8 Red	Excitation
3 Green	Analog Ground		
4 Yellow	RS-232 TX		
5 Grey	RS-232 Ground		
6 Pink	RS-232 RX		

