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# **RPS-409A-IS**

Intrinsically Safe for use in Hazardous (Classified) Locations when used with approved Safety Barrier(s). UL Listed: File # E226209

### Features

- Intrinsically Safe
- Various Sensing Ranges

• Self Contained Sensor

• Wide Temperature Range

• Temperature Compensation

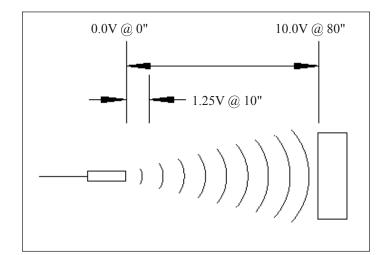
- UL Listed
- Input Voltage 24VDC
- Reverse Polarity Protected
- Analog Voltage Output
- Short Circuit Protected
- PVC Housing

LED Indicator

- Sync/Tx Input Line
- Quick Disconnect Connector

The RPS-409A-IS is an intrinsically safe, analog ultrasonic sensor. It is a self-contained sensor in a 30mm PVC barrel housing. It is powered by 16 - 30VDC with reverse polarity protection.

The RPS-409A-IS has a short circuit protected analog 0 - 10VDC output. The analog voltage is a fixed volts per inch based on the maximum range of the unit. For example using the RPS-409A-80-IS, the output is a linear 0.125V per inch. A target placed 10 inches from the sensor will result in an output signal of 1.25V or a target placed at 80 inches from the sensor will result in an output of 10V.





The RPS-409A-IS has built-in temperature compensation to provide accurate readings throughout the entire operating temperature range.

An LED indicator is provided. The LED is green when not detecting and changes to red when a target moves into place. The sensor is completely sealed and the connection is made by way of quick disconnect (QD) IP and NEMA rated cables.

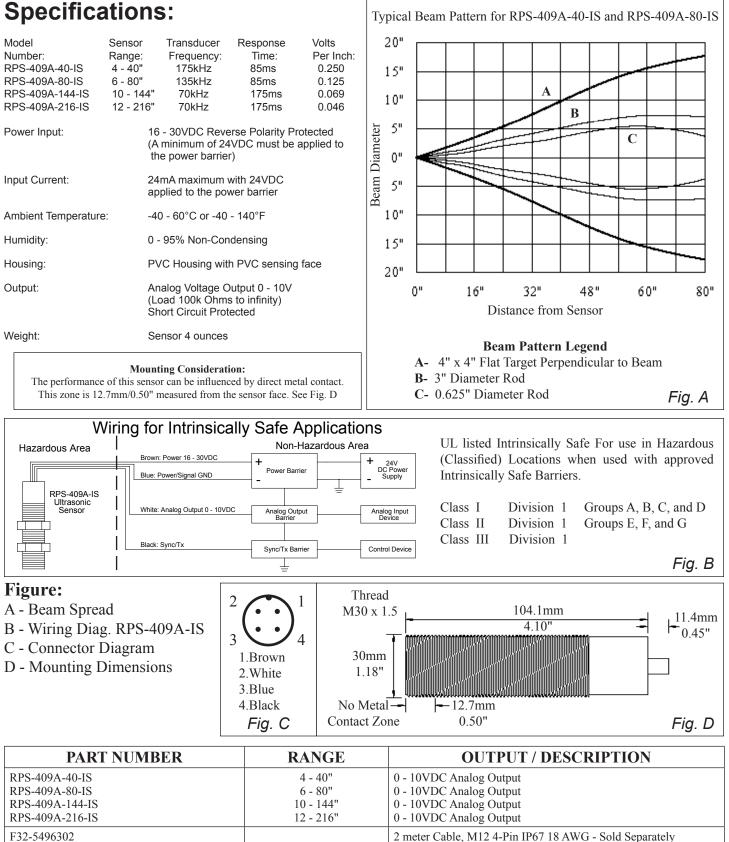
In addition to the analog output line the sensor also has a Sync/Tx line. This can be used for connecting multiple sensors together (Sync) to prevent cross talk, or (Tx) to control when the sensor transmits.

The RPS-409A-IS is designed to take advantage of today's PLC and computer analog input cards. The numerical values that are programmed into the PLC or computer will determine the zero and span.

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<sup>2</sup> meter Cable, M12 4-Pin IP67 18 AWG - Sold Separately 5 meter Cable, M12 4-Pin IP67 18 AWG - Sold Separately ZSB-409A Safety Barrier - Sold Separately DIN Rail Grounding Block - Sold Separately

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