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U-GAGE® T30UX Series with Analog Output

Ultrasonic Sensor with TEACH-Mode Configuration

Features

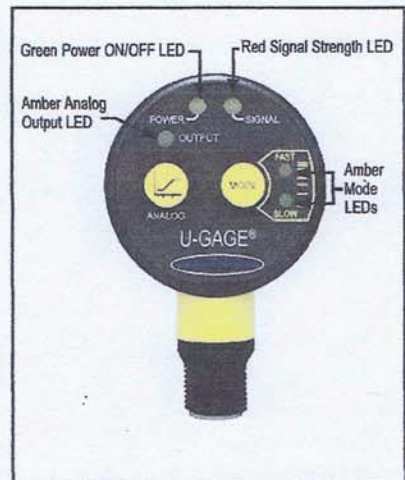


- 1, 2 and 3 m versions with short dead zones (10% of max. range)
- Built-in temperature compensation
- Fast, easy-to-use TEACH-mode configuration; no potentiometer adjustments
- Configure with either a positive or negative analog output slope
- Remote TEACH for security and convenience
- Wide operating temperature range of -40° to $+70^{\circ}$ C (-40° to $+158^{\circ}$ F)
- Choose either 0 to 10V dc or 4 to 20 mA output model
- Compact, self-contained, right-angle sensor package with fully encapsulated electronics

Overview

The U-GAGE® T30UX is an easy-to-use ultrasonic sensor with extended range and built-in temperature compensation. Simple push button configuration provides flexibility for a variety of applications.

Easy-to-see indicator LEDs communicate the status of the sensor (see Figure 1). The Green "Power" LED ON indicates that the sensor is in Run Mode (the sensor's normal operating condition). The Red "Signal" LED indicates the target signal strength. The Amber "Output" LED indicates that the output is enabled and the sensor is receiving a signal within the window limits. The Amber "Mode LED" indicates the currently selected mode (fast or slow).



Principles of Operation

Ultrasonic sensors emit one or multiple pulses of ultrasonic energy, which travel through the air at the speed of sound. A portion of this energy reflects off the target and travels back to the sensor. The sensor measures the total time required for the energy to reach the target and return to the sensor. The distance to the object is then calculated.

OUTDOOR INSTALLATION		INDOOR INSTALLATION	
MODEL: <input type="checkbox"/> T30UX1A / 1M - OD <input type="checkbox"/> T30UX1B / 2M - OD <input type="checkbox"/> T30UX1C / 3M - OD	SENSING RANGE: <input type="checkbox"/> 100 mm TO 1 m (3.9" TO 39") <input type="checkbox"/> 200 mm TO 2 m (7.8" TO 78") <input type="checkbox"/> 300 mm TO 3 m (11.8" TO 118")	MODEL: <input type="checkbox"/> T30UX1A / 2M - ID <input type="checkbox"/> T30UX1B / 3M - ID	MODEL: <input type="checkbox"/> T30UX1A / 1M - ID



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