Scadaflex II

ULTRASONIC LEVEL SENSOR OPTION

- Available integrated into Scadaflex II LPR package or extended on cable
- 5 meter and (16.4 ft.) and 10 meter (32.8 ft.) ranges
- 1 mm (0.040 in.) resolution
- No external power needed – powered by LPR module battery
- Sealed against harsh environments – IP67 rating
- Built-in internal temperature compensation for high accuracy
- Plug and Play – just enable the option on the Scadaflex II controller
- Installs in minutes, or less

Scadaflex II LPR Remote I/O w/ultrasonic sensor built in

Ultrasonic Sensor Option for . . .

✓ Monitoring tank, stream, pond, tank and bin levels
✓ Measuring open channel flow rates
✓ Intrusion detection
✓ Proximity warning systems

ultrasonic sensor w/cable

Scadaflex II – Ultrasonic Level Sensor Option

Scadaflex II ultrasonic sensors are in-air, non-contact object detection and ranging sensors that detect objects within an area. These sensors are not affected by the color or other visual characteristics of the detected object. Ultrasonic sensors use high frequency sound to detect and localize objects in a variety of environments. Ultrasonic sensors measure the time of flight for sound that has been transmitted to and reflected back from nearby objects. Based upon the time of flight, the sensor outputs a range reading.

The Scadaflex II Ultrasonic Sensors work with Scadaflex II LPR (Low Power Remote) I/O modules to measure the distance to surfaces or objects up to 33 ft. away and as close as 12 inches with high accuracy and resolution. The sensor utilizes extremely small amounts of power, running for years on the "D" cell battery in the Scadaflex II LPR module.

Auto Target Size Compensation - Scadaflex II Ultrasonic sensors automatically compensate for target size differences. Provided that an object is large enough to be detected, the sensor will report the same distance, typically within 1%, regardless of target size.

Auto Calibration - Each time a Scadaflex II Ultrasonic Sensor takes a range reading, it calibrates itself to compensate for variations in temperature and humidity.

Rugged Sealed Construction – Scadaflex II Ultrasonic Sensors are IP67 sealed with very good chemical resistance.

SPECIFICATIONS	
Minimum Measurement:	Model 29-9011: **30 cm (12 in.)** ; Model 29-9012: **50 cm (20 in.)**
Maximum Measurement:	Model 29-9011: **5 m (16.5 ft.)** ; Model 29-9012: **10 m (33 ft.)**
Resolution:	**1 mm (0.040 inches)** , both models
Accuracy:	better than 1% typical
Operating Temperature	-40°C to +65°C
Environmental Rating:	IP67
Cable Length:	up to 100 ft. (option)
Exposed Materials:	Aluminum (oxidized surface), PVC, & Flourosilicone (with an additional back up FEP Teflon® seal).
Operating Temperature	-40°C to +65°C
Power Consumption:	< 10mW
Input Power:	Supplied by Scadaflex II LPR module

ICL
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