

HIGH ACCURACY ULTRASONIC LEVEL SENSOR

[Preliminary data sheet](#)

FEATURES

- Accurate measurement
- Fast response time
- Low cost
- Small size ideal for OEM applications
- Built-in temperature correction
- Environmentally sealed



APPLICATIONS

- Fuel level measurement
- Liquid storage tank level measurement
- Linear distance measurement
- Industrial Automation

DESCRIPTION

ARN-ULS500 is an ultrasonic level sensor for accurate measurement of distance between sensor and obstruction. It is highly suitable for applications such as measurement of fuel or any liquid level in a tank. It is also suitable for applications requiring linear distance measurement such as linear guides.

The level sensor works on the principal of distance calculation by measuring the duration between travel of sound wave emitted from the sensor and the subsequent echo received. The speed of sound is corrected for temperature variations using built-in temperature sensor. The device is factory calibrated and tested with no general need for on-site calibration.

ARN-ULS500 level sensors are small in size and low cost making them ideal for OEM applications. These sensors can tolerate harsh environments such as factories, plants and construction and render outstanding performance over wide temperature conditions. These devices find applications in power, chemical plants, automotive, marine, robotic and automation industry.



SPECIFICATIONS

Parameter	Value/Type	Units
Measurement Range	50-500	mm
Resolution	1	mm
Accuracy	± 1	mm
Power Supply	12	VDC
O/P Format	RS232 Serial, RS485, MODBUS, 0-5VDC	-
Bandwidth	2	kHz
Casing Material	ABS	
Size	64 (height) x 18 (dia)	mm
Weight	< 100	gm
Working Temperature	-30 to +70	°C
Encapsulation	IP67	

PACKAGE DIMENSION

