

**ORDER IT!**

Ordering Is Easy! See Instructions on Page C-2.



# ULS-11 Series – Single Point

## Self-Contained Relay Saves Space

- ▶ 1 Amp SPDT Relay Output
- ▶ 9 to 36 VDC Input
- ▶ Temperatures to 160°F (71.1°C)
- ▶ Lengths to 99 inches (251.5 cm)

By integrating a 1 amp relay into the stem, we've made the ULS-11 our most compact ultrasonic unit. Yet, as unobtrusive as it is, the ULS-11 still delivers ultra-reliable solid-state performance in lengths up to 99 inches. Tip gap probe configuration places sensing point at 1/4 inch from probe tip for closer tank bottom sensing. Electronics are completely epoxy sealed for years of maintenance free service.

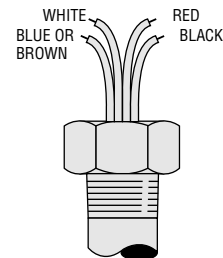
### Specifications

Input Power*	9 VDC to 36 VDC
Leakage Current	<50 $\mu$ A
Gain	300:1
Output	1 Amp, SPDT Relay Output
Repeatability	2mm typical
Delay (On)	0.5 Seconds
Operating Temperature	-20°F to +160°F (-29°C to +71°C)
Pressure, PSIG, Max.	1000
Protection	Transient Reverse Polarity
Lead length	12" PVC**

\* Contact GEMS for optional AC input versions.

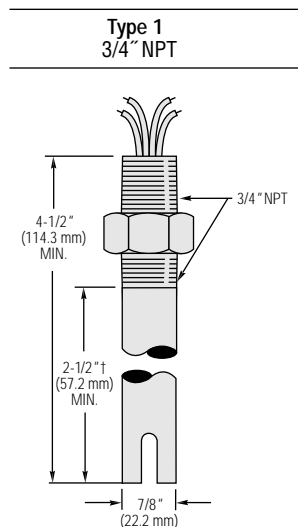
\*\* Consult factory for longer lead lengths.

### Wiring Diagram



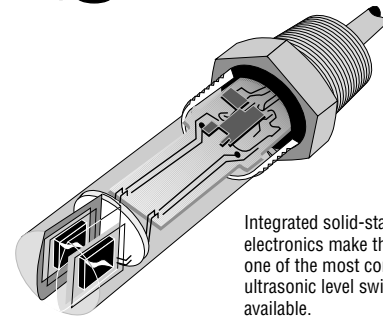
Color Code  
 Power: Red (+)  
           Black (-)  
 Relay: Common - White  
           N.O. - Blue  
           N.C. - Brown

## 1. Mounting Type



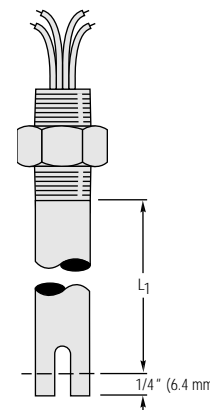
Mounting and Sensor Materials	316 Stainless Steel
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† 2-1/4" units are standard stock units. All other lengths are custom and require 5-piece minimum order.



Integrated solid-state electronics make the ULS-11 one of the most compact ultrasonic level switches available.

## 2. Actuation Level Dimensions



Switch actuation level ( $L_1$ ) is determined following the guidelines below.

$L_1 = 2-1/4$  ~ (57.2 mm) Minimum  
 99" (251.5 cm) Maximum