

# ULS-11 Series – Single Point

## Self-Contained Relay Saves Space

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

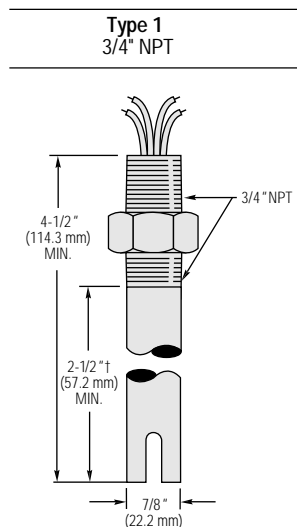
By integrating a 1 amp relay into the stem, we've made the ULS-11 our most compact ultrasonic unit. Yet, as unobtrusive as it is, the ULS-11 still delivers ultra-reliable solid-state performance in lengths up to 99 inches. Tip gap probe configuration places sensing point at 1/4 inch from probe tip for 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, SPST Relay Output (Specify Dry Contact, N.O. or N.C.)
Repeatability	2mm typical
Delay (On)	0.5 Seconds
Operating Temperature	-20°F to +160°F (-28.9°C to +71.1°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.

### 1. Mounting Type



Mounting and Sensor Materials	316 Stainless Steel*
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\* Other materials available. See Page E-3.  
 † 2-1/4" units are standard stock units. All other lengths are custom and require 5 piece minimum order.

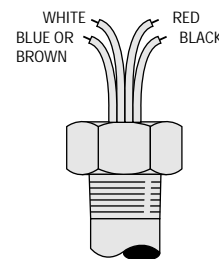
**ORDER IT!**

Ordering is Easy! See Instructions on Page E-2.

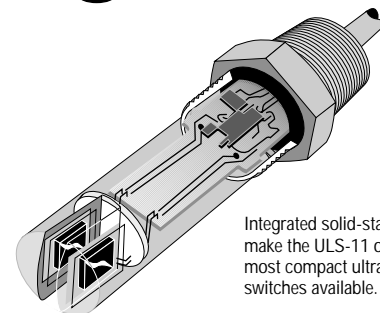


LEVEL SWITCHES

### Wiring Diagram

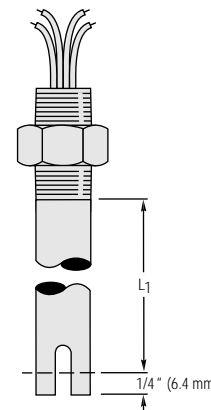


Color Code  
 Power: Red (+)  
 Black (-)  
 Relay: Common - White  
 N.O. - Blue  
 N.C. - Brown



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