

ULS-10 Series and ULS-100 Series

High Performance Models with Explosion-Proof Housings

- ▶ 10 Amp Relay Output
- ▶ 115/230 VAC 12 VDC or 24 VDC Input
- ▶ High Gain
- ▶ No Calibration Necessary
- ▶ Temperatures to 300°F (149°C)
- ▶ Lengths to 99 inches (251.5 cm)

The ULS-100 Series features our high performance sensor probe for handling liquid temperature to 300°F (149°C) and pressure to 1000 psi. Explosion-proof and water-tight, cast aluminum enclosures are standard; FM Approved explosion-proof enclosures are also available.

The ULS-10 Series features a Tip Gap probe design for closer tank bottom access. The miniaturized, encapsulated electronic control unit may be supplied for remote mounting, or directly mounted on sensor in an explosion-proof, NEMA enclosure. FM-Approved, explosion-proof enclosures are also available.

Specifications

Input Power	115/230 VAC, 50/60 Hz; or 12/24 VDC
Gain	
ULS-10 Series	300:1
ULS-100 Series	1000:1
Output	
ULS-10 Series	10 Amp DPDT Relay, or 2-Wire, 4mA-Dry, 20mA-Wet (9-36 VDC)
ULS-100 Series	10 Amp DPDT Relay
Delay (On)	0.5 Seconds
Repeatability	2mm, Typical
Housing	NEMA 4/NEMA 7 Watertight, Explosion Proof Enclosure, Epoxy Coated Cast Aluminum Class I, Group C & D; Class II, Group E, F, & G; and Class III, Division 1 & 2.
Operating Temperature	
Sensor	
ULS-10 Series	-40°F to +200°F (-40°C to +93°C)
ULS-100 Series	-40°F to +300°F (-40°C to +149°C)
Electronics	-20°F to +170°F (-29°C to 77°C)
Pressure, PSIG, Max.	1000 @ 250°F

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



ULS-100 Series
FM-Approved Explosion-Proof Enclosure may be ordered by specifying ULS-100-EP.



ULS-10 Series
Will sense liquid to within 1/4" of tank bottom.

Remote Electronics Configurations



ULS-100
Sensor Probe

ULS-10
Sensor Probe

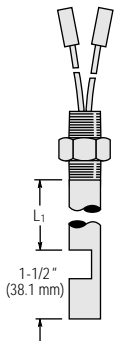
Remote Electronics

1. Mounting Type*

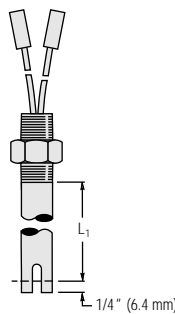
	Integral Electronics 3/4" NPT		Remote Electronics 3/4" NPT	
	ULS-100 Series	ULS-10 Series	ULS-100 Series	ULS-10 Series
Mounting and Sensor Materials	316 Stainless Steel (Standard); Consult Factory For Other Materials.			

*Flanges also available; consult factory for sizes and materials.

2. Actuation Level Dimensions



ULS-100 Series
 Switch actuation level (L_1) is determined following the guidelines below.
 $L_1 = 1'' (25.4 \text{ mm})$ Minimum
 99'' (251.5 cm) Maximum*

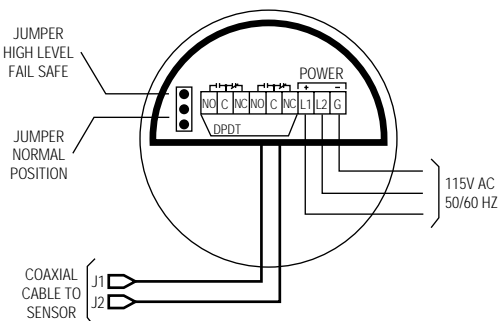


ULS-10 Series
 Switch actuation level (L_1) is determined following the guidelines below.
 $L_1 = 2-1/4'' (57.2 \text{ mm})$ Minimum
 99'' (251.5 cm) Maximum*

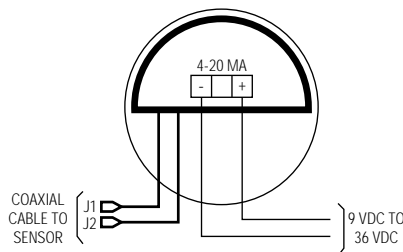
*Consult factory for longer lengths.

Wiring Diagrams

DPDT – ULS-10 and ULS-100 Series



4-20mA – ULS-10 Series only



Note:
 For 24 VDC or 12 VDC Models
 Connect Positive (+) to L1-Terminal
 Connect GND (-) to G - Terminal