



Description

The general purpose three-wire ultrasonic transmitter provides non-contact level measurement up to 40' or 12.2m with an internal relay that can be configured as a single-point alarm or latched on two points for automatic fill or empty control. The transmitter is ideally suited for challenging corrosive, slurry or waste liquids and is typically selected for large atmospheric bulk storage and waste sump applications. Media examples include sulfuric acid and resin. For applications with heavy agitation, surface foam or restricted measurement space, install the ultrasonic transmitter in a 2"-12" stand pipe. The stand pipe installation dampens agitation, separates surface foam and reduces the minimum required free space within the tank.

Specifications

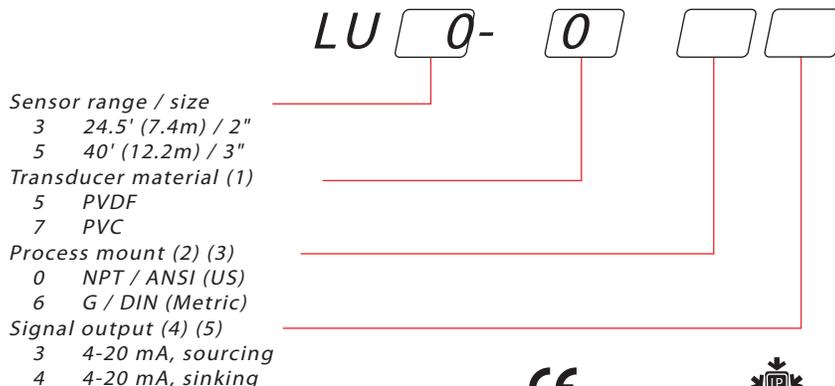
Range:	2" mount: 0.5' to 24.5' (15 cm to 7.4m) 3" mount: 1.5' to 40' (46 cm to 12.2m)	Temp. comp.:	Automatic
Accuracy:	± 0.25% of span in air	Electronics temp.:	F: -20° to 140° C: -4° to 60°
Resolution:	0.125" (3 mm)	Pressure:	30 psi (2 bar) @ 25° C., derated @ 1.667 psi (.113 bar) per °C. above 25° C.
Beam width:	8° conical	Enclosure rating:	NEMA 4X (IP65)
Dead band:	LU30: 0.5' (15 cm) LU50: 1.5' (50 cm)	Installed height:	LU30: 5.1" (13 cm) LU50: 10.6" (26.9" cm)
Display type:	LED, 4-digit	Encl. material:	PP, UL94VO
Display units:	Inch or cm	Trans. material:	2" mount: PVDF Kynar® 3" mount: Polyvinylchloride
Memory:	Non-volatile	Cable jacket mat:	Vinyl
Supply voltage:	14-36 VDC	Cable type:	Pow./signal: 3-conductor Relay: 3-conductor
Consumption:	200 mA max.	Cable length:	3' (91 cm)
Current flow:	Source/sink	Process mount:	2" NPT (2"G); 24.5' (7.4m) 3" ANSI/DIN 80 flange: 40' (12.2m)
Signal output:	4-20 mA, three-wire	Mount. gasket:	Viton® (2" G version only)
Signal invert:	4-20 or 20-4 mA	Conduit entrance:	Single, 1/2" NPT
Calibration:	Digital, push button	Classification:	General purpose
Contact type:	(1) SPDT relay, latching	CE compliance:	EN 50082-2 immunity EN 55011 emission EN 61010-1 safety
Contact rating:	250 VAC @ 10A		
Contact logic:	Single point: alarm Two point: latching		
Contact fail-safety:	Reverts to safe state during echo-loss		
LED indication:	Relay status		
Process temp.:	F: -40° to 140° C: -40° to 60°		

Features

- ✓ LED digital display indicates level in inches or centimeters
- ✓ Relay for alarm or automatic fill or empty control operation
- ✓ EasyCal simple push button calibration for all user set points
- ✓ PP NEMA 4X enclosure with rugged Kynar® transducer
- ✓ Fail-safe intelligence and relay logic for maximum process safety

Echotouch

Ordering



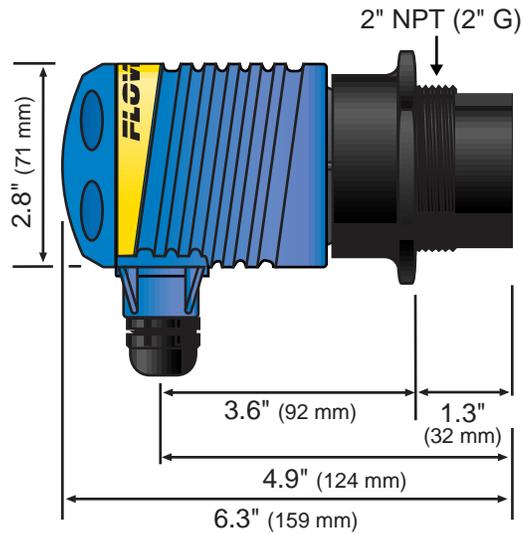
Ordering Notes

- 1) The LU30 is offered with a PVDF transducer and the LU50 is offered with a PVC transducer.
- 2) The LU30 is offered with a 2" NPT or G thread mount and the LU50 is offered with a 3" ANSI or DIN 80 flange mount.
- 3) The straight G thread version seals with an included Viton® mounting gasket.
- 4) The sourcing transmitter provides internal excitation for use with sinking devices. The sinking transmitter requires external excitation for use with sourcing devices.
- 5) For three wire transmitter power, order the LC95-1001 (120 VAC) or LC96-1001 (240 VAC) power supply (24 VDC @ 0.6A).

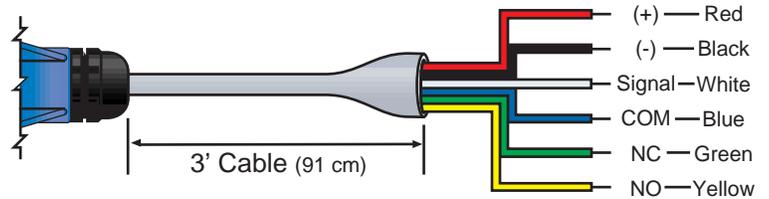


Echotouch™ Ultrasonic Level Transmitter

Sensor Dimensions

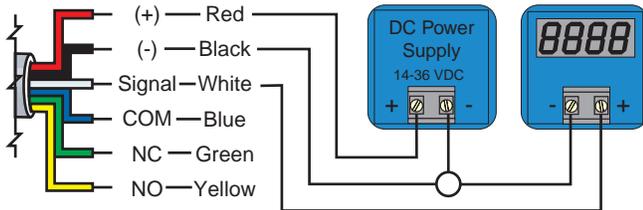


Cable Dimensions

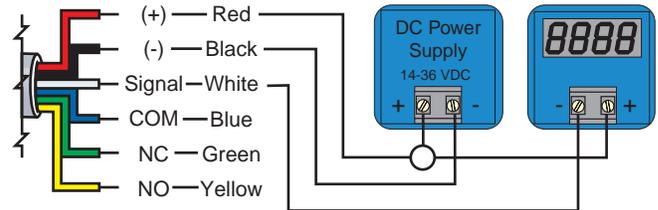


Specifications are subject to change without notice.

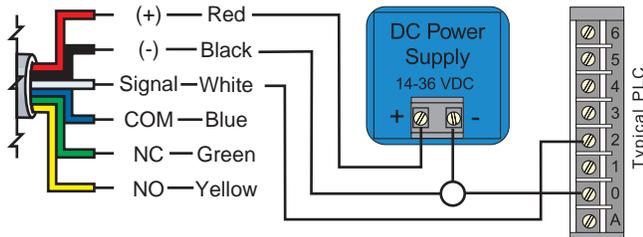
To Loop Indicator (Sourcing Output)



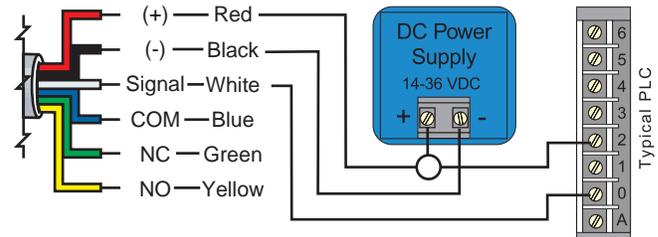
To Loop Indicator (Sinking Output)



To PLC (Sourcing Output)



To PLC (Sinking Output)



To LC52 Relay Controller

