

EchoSwitch Multi-Point Ultrasonic Level Switch



Application

The general purpose ultrasonic switch provides non-contact level detection up to 26' or 8m with 3 relays. Each relay can be configured on a single set point alarm, automatic fill or empty including pump alternation or duplexing control, or two set points for out of bounds alarms. The switch is well suited for a broad range of corrosive, waste and slurry media, and is broadly selected for atmospheric day tank, process vessel, pump lift station and waste sump applications.

Features

- Non-contact level detection with integral 3-channel relay control
- Offered in four sensor ranges up to 8m with 1" and 2" transducers
- EasyCal target push button calibration with non-volatile memory
- 5cm minimum beam width for applications with restricted space
- Fail-safe intelligence with troubleshooting diagnostic feedback

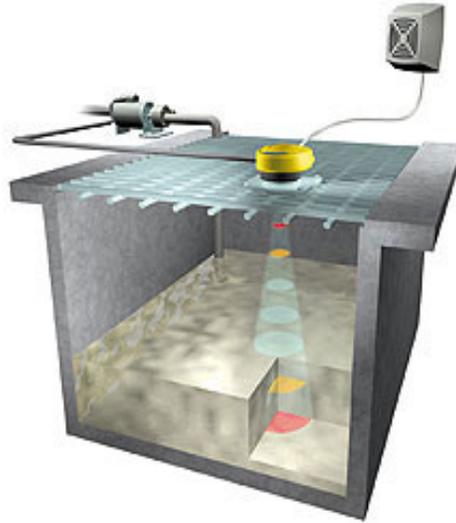
Specifications

Range:	2" to 26.2' (5cm to 8m)
Repeatability:	0.25" (6mm)
Hysteresis:	LU72/75: 0.5" (1.2cm) single set point LU71/73: 1" (2.5cm) single set point
Beam width:	LU72/75: 2" (5cm) dia. LU71/73: 3" (7.6cm) dia.
Dead band:	LU75: 2" (5cm) LU71/72: 4" (10cm) LU73: 8" (20cm)
Supply voltage:	50_5: 95-250 VAC 58_5: 12-28 VDC
Contact type:	(3) SPDT relays
Contact rating:	60 VA
Contact fail-safety:	De-energizes during echo signal loss
Calibration:	Target, push button
Process temp:	F: -4° to 140° C: -20° to 60°
Pressure:	30 psi (2 bar)
Enclosure rating:	NEMA 4X (IP65)
Process mount:	1" / 2" NPT (1" / 2" G)
Trans. material:	PVDF
Classification:	General purpose

Automation

The integral three-channel relay controller has powerful tank automation features including advanced pump and alarm control logic designed for day tank, process vessel and waste sump applications. From alarms to automatic fill or empty, pump duplexing and run dry protection, EchoSwitch does it all. Its level automation made simple.

- High or low alarm
- Out of bounds alarm
- Automatic fill or empty
- Two pump duplexing



Order

- LU75-5005 LU75-5065 LU75-5805 LU75-5865
- LU72-5005 LU72-5065 LU72-5805 LU75-5865
- LU71-5005 LU71-5065 LU71-5805 LU71-5865
- LU73-5005 LU73-5065 LU73-5805 LU73-5865

LU7□-5□□5

Sensor range / size
5 1.2m (4') / 1"
2 3m (9.8') / 1"
1 5m (16.4') / 2"
3 8m (26.2') / 2"

Supply voltage
0 95-250 VAC
8 12-28 VDC

Process mount (1)
0 NPT (US)
6 G (Metric)

Ordering Notes

1) For installation on open tanks, order the LM50-1001-1 (1" NPT), LM50-1061-1 (1" G), LM50-1001 (2" NPT) or LM50-1061 (2" G) side mount bracket.

203 Vest Avenue
Valley Park, MO 63088

Toll Free: (888) SPECTECH
Phone: (636) 537-0202

Fax: (636) 537-1405
E-Mail: sales@spectechind.com