

Application



The general purpose level switch package provides automatic tank filling or emptying up to 10' (3m) between two adjustable level switch points. The compact level controller with optional strobe provides one latching 16A relay for pump or valve control. Offered in three level sensor technologies, select the type based upon your application media. This polypropylene liquid level switch package is widely selected for sump, process and day tank level applications.



Features

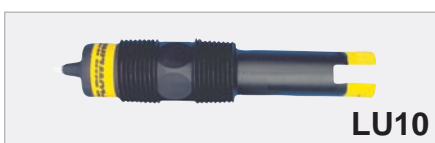
- ✓ Fail-safe relay control of pumps or valves with 0-60 second delay
- ✓ Offered in 3 sensing technologies for broad application coverage: ultrasonic, vibration & buoyancy
- ✓ Easy setup with LED indicators for sensor, power and relay status
- ✓ Rugged polypropylene construction for use in corrosive liquid environments
- ✓ Adjustable level switch cars enable sensor adjustment in the field
- ✓ Invert switch changes relay state from NO to NC without rewiring

Key Benefits

- ✓ Field adjustable sensors allow for field corrections
- ✓ Mounts on the top wall of tank
- ✓ Ideal auto fill/empty controller
- ✓ Internal 16A relay connects directly to valves/pumps
- ✓ All-in-one package, simply add 120/240 VAC power

Compatible Products

Switch-Tek™ Ultrasonic Level Switch



Broadly applied in chemicals and light weight oils

Switch-Tek™ Vibration Level Switch



Applied in wastewater with light coating or scaling

Switch-Tek™ Vertical Buoyancy Level Switch

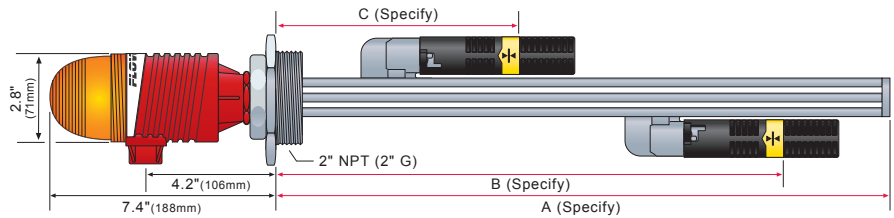


Applied in clean water and non-coating chemicals

Specifications

Length:	8" to 10' (20cm to 3m)
Accuracy:	± 1mm in water
Repeatability:	± 0.5mm in water
Orientation:	± 20° vertical
Switch points:	2 (field adjustable)
LED indication:	Power, relay & sensor
Supply voltage:	120 / 240 VAC @ 50-60 Hz
Consumption:	0.25A maximum
Strobe type:	-431X: N/A -432X: Xenon tube
Strobe flash:	-431X: N/A -432X: 1 per second
Contact type:	(1) SPDT relay, latching
Contact rating:	250 VAC @ 10A
Contact output:	Selectable NO / NC
Contact delay:	0-60 seconds
Contact latch:	Selectable ON / OFF
Process temp.:	F: -40° to 176° C: -40° to 80°
Ambient temp.:	F: -40° to 140° C: -40° to 60°
Installed height:	431_: 5.7" (14.4 cm) 432_: 7.4" (18.8 cm)
Pressure:	Atmospheric
Enclosure rating:	NEMA 4X (IP65)
Enclosure mat.:	-432X: PP, UL94VO & PC -431X: PP, UL94VO
Conduit entrance:	1/2" NPT
Wetted material:	PP (20% glass fill)
Process mount:	2" NPT (2" G)
Classification:	General purpose
Compliance:	CE

Dimensions



Fittings

For optimum performance, install the level sensor using the below recommended or direct equivalent fittings.

	P/N	Description
	LM52-2400	3" NPT x 2" NPT (Sch. 40)
	LM52-2800	3" NPT x 2" NPT (Sch. 80)
	LM52-3800	4" NPT x 2" NPT (Sch. 80)
	LM52-2410	3" Socket x 2" NPT (Sch. 40)
	LM52-3410	4" Socket x 2" NPT (Sch. 40)
	LM52-2810	3" Socket x 2" NPT (Sch. 80)
	LM52-3810	4" Socket x 2" NPT (Sch. 80)
	LM52-2890	2" NPT Bulkhead Fitting, PVC
	LM52-2850	2" NPT Flange - 150# (Sch. 80)
	LM50-1001	2" NPT Bracket, Polypropylene

Ordering

A 23-43 - - -

Sensor technology (1)

- Z Vibration
- U Ultrasonic
- V Buoyancy

Configuration

- 1 Controller only
- 2 Controller with Strobe Alert

Process mount

- 3 NPT (US)
- 7 G (Metric)

Dimensions (2) (3)

- A Specify
- B Specify
- C Specify

Notes

- 1) Select the best level sensor technology based upon your application.
- 2) Specify the A, B, C dimensions at the end of the part number (ie: AZ23-4343-87"-76"-17"). The dimensions may be specified in 1/2" (1.3cm) increments. The track length or A-dimension may be specified from 12" to 10' (20cm to 3m). The sensor or B and C dimensions may be specified from 4" to 10' (10cm to 3m). For maximum field adjustability, specify all sensor dimensions equal to the A-dimension.
- 3) To calculate the track length adder, round up the A-dimension to the next foot (30 cm) and add \$20 per foot (30cm) to the price.