

The LLC8 Series is a low cost, single-probe conductive liquid level control designed for low liquid level cutoff protection. It offers a factory fixed time delay of 1-60s and is available for input voltages of 24, 120, or 230VAC. LED indicator illuminates whenever the LLC8's isolated, 10A, SPDT output relay is energized. Sense resistance is fixed from $5K - 250K\Omega$. Available with manual/ automatic reset or a special manual reset with a power outage feature that auto resets the unit when power is restored and the water level is acceptable. 24 and 120VAC units are UL recognized as limit switches under UL353 (230VAC units are UL 508) and CSA certified under Standard 14.

For more information see: Appendix B, page 167, Figure 28 for dimensional drawing. Appendix C, page 170, Figure 25 for connection diagram.

Automatic Reset (Reset switch not connected): When liquid rises to low level cutoff probe, output relay and LED indicator energize. When liquid falls below the low level cutoff probe, the output relay and LED indicator de-energize after a fixed time delay.

Manual Reset (Reset switch connected): When the liquid level falls below low level probe, the output relay and LED de-energize after a fixed time delay. When the liquid level rises to low level probe, the output relay and LED indicator remain de-energized until the NC manual reset switch is opened; then they energize immediately. Power Outage Manual Reset (Reset switch connected): A power outage causes the output relay and LED indicator to de-energize. Upon restoration of power, if the liquid is touching the low level probe, the output relay and LED indicator will re-energize. If the liquid level is below the low level probe, the output relay and LED indicator remain de-energized until the NC reset switch is opened.

Features:

- Designed for low level cutoff protection
- Energized on wet probe
- Fixed time delay 1 60s
- Fixed sense resistance of $5K 250K\Omega$
- 24, 120, or 230VAC input voltages available
- Isolated, 10A, SPDT output contacts

Approvals: (E R)

Auxiliary Products:

- Quick connect to screw adaptor:
 - P/N: P1015-18
- Electrode: P/N: PHST-38QTN
- Threaded probe (24"): P/N: LLP-24
- Female quick connect:

P/N: P1015-13 (AWG 10/12) P/N: P1015-64 (AWG 14/16) P/N: P1015-14 (AWG 18/22)

Available Models:

LLC825F5M LLC843F26P LLC843F10M LLC845F25P LLC843F10P LLC8610F12M LLC843F26M

If desired part number is not listed, please call us to see if it is technically possible to build.

Order Table:

LLC8

Input -<mark>2 -</mark> 24VAC -4 - 120VAC -6 - 230VAC

Time Delay (fixed) Specify fixed delay in seconds (1-60) in 1s increments

Sense Resistance -F - Fixed (Specify fixed resistance in kilohms (5-250) in 1K increments.)

-M - Manual/Automatic Reset P - Power outage manual reset

Specifications

Type Resistance sensing for conductive liquids with

time delay

Sense Resistance. Fixed 5K - $250K\Omega$ Sense Resistance Tolerance.....±10%

Time Delay

Repeat Accuracy ±10% Time Delay vs Temp. & Voltage. ±10% Power Outage Reset Delay.....≤1s

AC Line Frequency 50/60 Hz

Input

Voltage..... Tolerance 120 or 230VAC....-20% - 10%

Type Electromechanical relay Form. Isolated SPDT

1/2 hp @ 250VAC

Protection

..... IEEE C62.41-1991 Level A Isolation Voltage. ≥ 2500V RMS input to output terminals

Mounting 0.5 in. (12.7 mm) x .187 (4.76 mm) dia. nvlon standoffs (3)

Termination Electrical 0.25 in. (6.35 mm) male quick connect

terminals

Reset Switch & Probe(s)..... 0.187 x 0.03 in. (4.75 x 0.76 mm) male quick connect terminals

Operating/Storage Temperature. . . . -40° to 60°C / -40° to 80°C

Coating Printed circuit board is conformal coated to resist moisture & corrosion

Humidity......95% relative, non-condensing