



LL-10 SERIES – POWER LOOP

SPECIFICATIONS

- ♦ A direct replacement for mechanical float type liquid level devices
- ♦ Proven ultrasonic technology
- ♦ Solid state integral electronics
- ♦ Designed for years of maintenance-free service

The Solid State Float™ LL-10 series liquid level switch is a direct replacement for mechanical float type liquid level devices. It employs proven ultrasonic technology and solid state integral electronics. The Solid State Float™ provides reliable operation in virtually any liquid and eliminates failures due to finite mechanical life inherent in the mechanical float design. With fully epoxy sealed electronics, combined with ultrasonic sensing technology, Solid State Float™ is designed for years of maintenance-free service.

FEATURES

Standard Features

- ♦ High pressure up to 1000 PSIG (6895 Kpa)
- ♦ Output: Wet 16 ± 1 ; Dry 4 ± 1
- ♦ No moving parts, easy to install
- ♦ Input 5 to 30 VDC
- ♦ Digital filter techniques enhance performance

Optional Features

- ♦ Electropolishing
- ♦ Higher temperature up to 212 °F (100 °C)
- ♦ Relay output, 0.5 amp SPDT

APPLICATIONS

- ♦ Pump protection
- ♦ Storage tanks
- ♦ Compressors
- ♦ Medical and laboratory equipment
- ♦ Hydraulic supply lines
- ♦ Oil film detection
- ♦ Coolant reservoirs
- ♦ Boiler water cutoff
- ♦ Sewage systems
- ♦ Pipe lines
- ♦ Hydraulic and lube reservoirs
- ♦ Chillers

PERFORMANCE SPECIFICATIONS

Parameter	Typical Value
Repeatability	2 mm or better
Delay	0.5 seconds
Input Voltage	5 to 30 VDC
Input Power	100 mA max standard
Leakage Current	Less than 50 μ A
Output (standard)	Power Loop Output: Wet 20 ± 1 ; Dry 4 ± 1 mA
Mounting	3/4" NPT

Parameter	Typical Value
Protection	Transient, reverse polarity
Sensor Material	316L Stainless Steel
Temperature	-20 to +176° F (-29 to 80 °C)
Operating Pressure	Up to 1000 PSIG (6895 Kpa)
Cable Length	1, 4, 10, or 20 foot long cables available

MECHANICAL DIMENSIONS IN INCHES [MM]

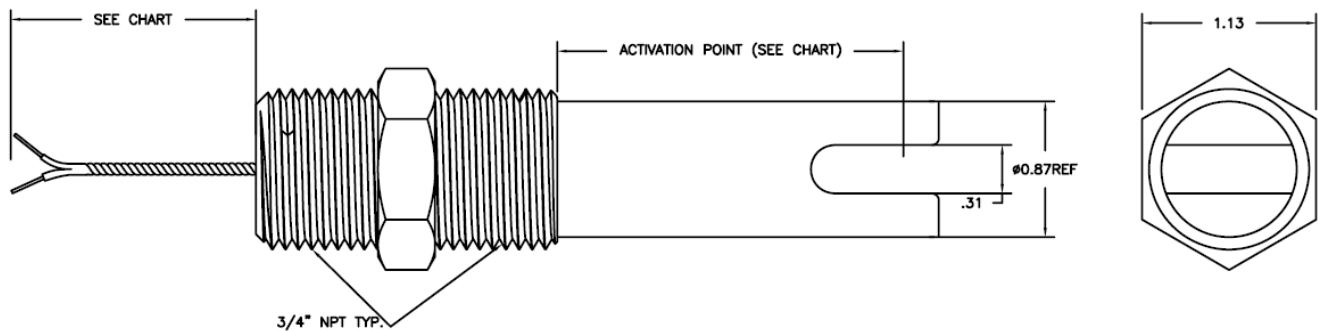


Figure 1: LL-10 series element

SCHEMATICS

Typical Wiring Diagram – Relay Output

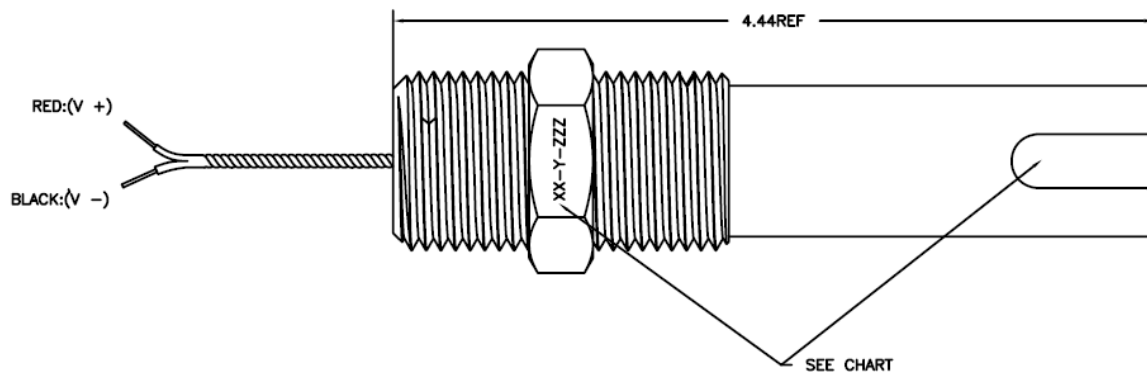
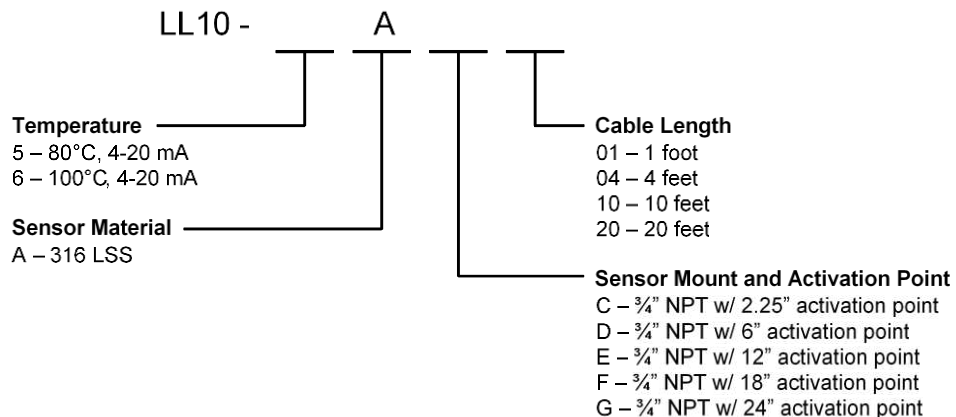


Figure 2: Typical wiring diagram for LL-10 series element

ORDERING INFORMATION

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NORTH AMERICA

Measurement Specialties, Inc.,
a TE Connectivity Company
Phone +1-800-522-6752
Email: customercare.hmpt@te.com

EUROPE

MEAS Deutschland GmbH(Europe)
a TE Connectivity Company
Phone: +49-800-440-5100
Email: customercare.tlse@te.com

ASIA

Measurement Specialties (China), Ltd.,
a TE Connectivity Company
Phone: +86-400-820-6015
Email: customercare.shzn@te.com

TE.com/sensorsolutions

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