

ULTRASONIC LEVEL SENSORS

LVU-150-R
Starts at
\$275

Single Switch
Mounting Assemblies
Available at:
omega.com/lvu150



- ✓ Not Sensitive to Changes In Viscosity, Density, or Conductivity
- ✓ SPST Relay Standard
- ✓ Resists Vapor and Turbulence
- ✓ NEMA 6 (IP68) Submersible Sensor and Cable

OMEGA's ultrasonic sensors deliver accurate and reliable liquid level detection with an SPST mechanical relay output. The technology provides a high level of ultrasonic sensitivity, including resistance to vapor and turbulence. The ultrasonic sensor utilizes a fork-shaped sensor which contains two piezoelectric crystals, one of which acts as the ultrasonic transmitter, and the other as a receiver. If the air gap between the points of the fork fills with liquid, the sonic wave passes from one crystal to the other.

SPECIFICATIONS

Accuracy: ±1 mm (0.04") in water
Repeatability: ±0.5 mm (0.02") in water
Dead Band Hysteresis: 1 mm in water
Voltage Input: 12 to 36 Vdc
Current Output: 25 mA max.

Relay:

GP: 120 Vac/Vdc @ 1 A

CE: 60 Vac/Vdc @ 1 A

Switch Mode:

Selectable, NO or NC states

Wetted Materials: Polypropylene (PP) or Perfluoroalkoxy (PFA)

Temp. Rating: -40 to 80°C (-40 to 176°F)

Max Pressure Rating: PP:150 psi @ 25°C (76°F) derated @ 1.667 psi per °C above 25°C (76°F)

Loop Resistance: 600 ohm @ 24 Vdc

Standard Cable Length: 3 m (10')

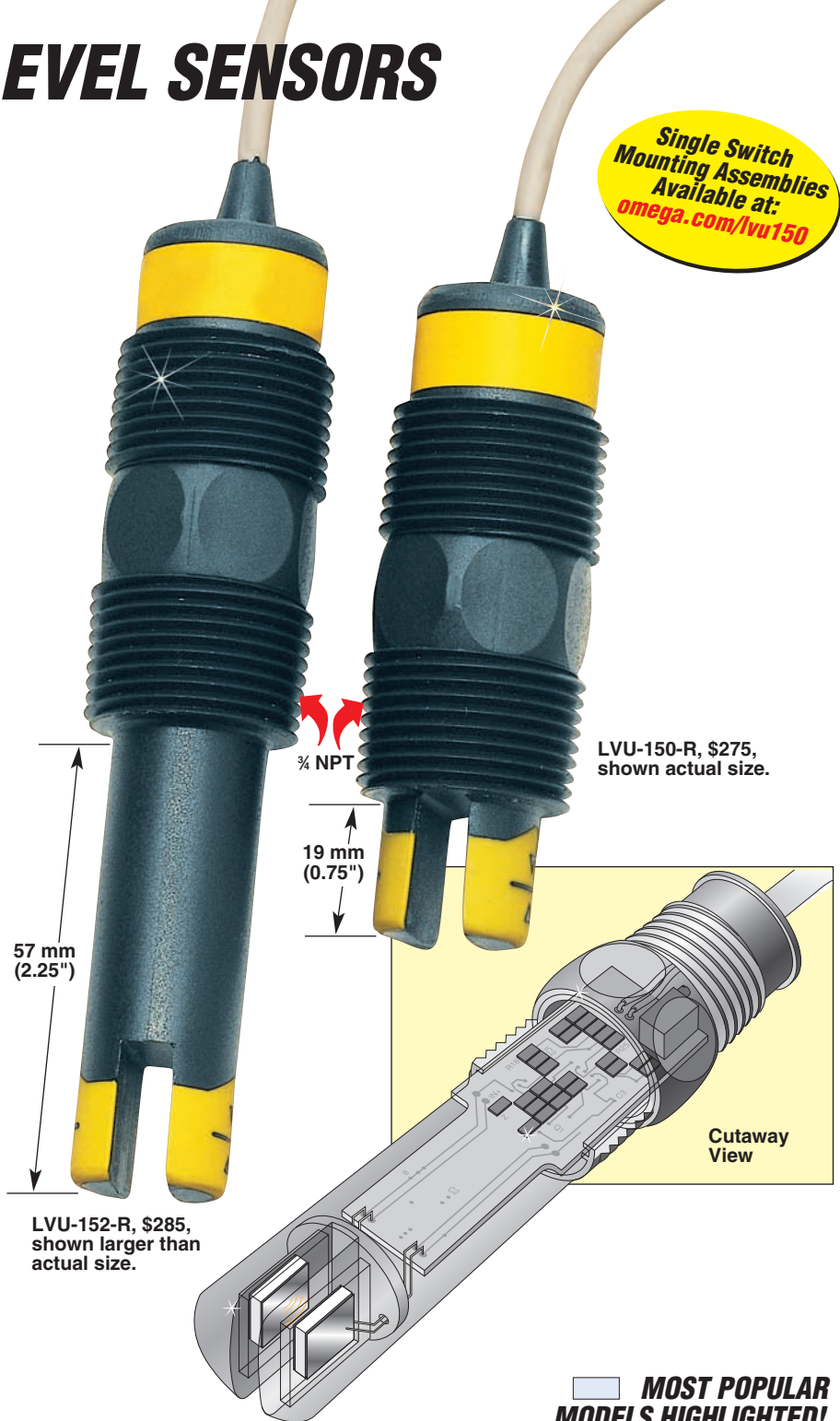
Max Cable Length: 305 m (1000')

Dimensions:

76.2 or 114.3 L x 26.7 mm Dia.

(3.0 or 4.5 x 1.05") (¾" NPT)

Enclosure Rating: NEMA 6 (IP68) submersible sensor and cable



LVU-150-R, \$275, shown actual size.

57 mm (2.25")

¾" NPT

19 mm (0.75")

LVU-152-R, \$285, shown larger than actual size.

Cutaway View

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

Model No.	Price	Description	Material	Size (in)
LVU-150-R	\$275	Ultrasonic sensor	PP	3 x ¾ NPT
LVU-151-R	385	Ultrasonic sensor	PFA	3 x ¾ NPT
LVU-152-R	285	Ultrasonic sensor	PP	4.5 x ¾ NPT
LVU-153-R	385	Ultrasonic sensor	PFA	4.5 x ¾ NPT
GE-2427	105	Reference Book: Ultrasound and Elastic Waves		

Comes complete with operator's manual and 3 m (10') cable.

Two extended cable lengths available. For 7.62 m (25') add suffix "-25" to model number, and add \$20 for PP models, or add \$75 for PFA models. For 15.24 m (50') add suffix "-50" to model number, and \$40 for PP models, or add \$150 for PFA models.

Ordering Examples: LVU-150-R, polypropylene ultrasonic sensor, 3 x ¾ NPT, \$275.

LVU-153-R, PFA ultrasonic sensor, 4.5 x ¾ NPT, \$385.

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