

# INTRUSIVE RF CAPACITANCE LEVEL SWITCH

LVC-101-R Series Starts at

**\$205**



- SPST Relay Standard
- High Frequency (RF) Operation Ensures Accuracy and Reliability
- Selectable Normally Open or Normally Closed
- NEMA 6 (IP68) Submersible Sensor and Cable
- Mounted in Any Orientation, Wet or Dry

OMEGA's intrusive RF capacitance sensors deliver accurate and reliable liquid level detection with a SPST relay. RF capacitance technology provides a high level of dielectric sensitivity.

The sensor is impervious to variations in temperature, pressure, light, particulates, liquid color or density. Factory calibration ensures reliability with a wide range of polar liquids.

**Note:** Not for use in metal tanks.

## SPECIFICATIONS

**Accuracy:** ±1 mm (0.04") in water

**Repeatability:** ±0.5 mm (0.02")

**Dielectric Range:** 20 to 80 dielectric units @ 1 MHz

**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 90°C (-40 to 194°F)

**Max Pressure Rating:**

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

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

**Loop Resistance:** 600 Ω @ 24 Vdc

**Standard Cable Length:** 3 m (10')

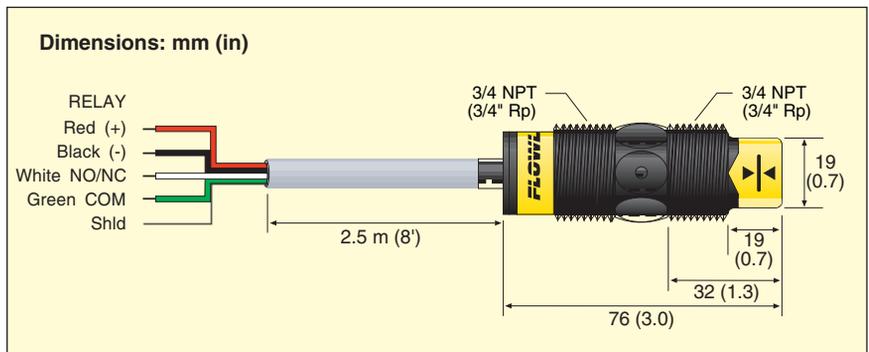
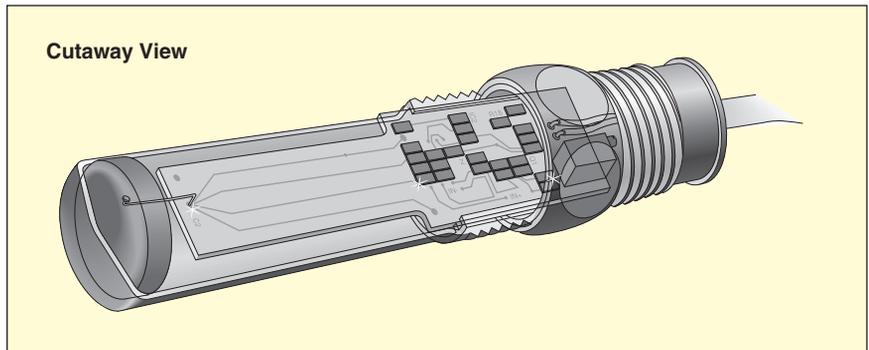
**Max Cable Length:** 305 m (1000')

**Dimensions:** 7.6 or 11.4 x 2.67 cm (3.0 or 4.5 x 1.05"); ¾ NPT connection

Single Switch Mounting Assemblies Available at: [omega.com/lvm50](http://omega.com/lvm50)



LVC-101-R, \$205, shown smaller than actual size.



**MOST POPULAR MODELS HIGHLIGHTED!**

To Order (Specify Model Number)				
Model No.	Price	Description	Material	Size (in)
LVC-101-R	\$205	RF capacitance sensor	PP	3 x ¾ NPT
LVC-102-R	315	RF capacitance sensor	PFA	3 x ¾ NPT
LVC-103-R	215	RF capacitance sensor	PP	4.5 x ¾ NPT
LVC-104-R	325	RF capacitance sensor	PFA	4.5 x ¾ NPT
ES-2207	99	Reference Book: Handbook of Water and Wastewater Treatment Technologies		

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:** LVC-102-R PFA sensor, 3 x ¾ NPT, \$315.

LVC-104-R, RF capacitance sensor, 4.5 x ¾ NPT, \$325.

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