

# RADIO FREQUENCY LEVEL SWITCH

## LV750 Series



- ✓ Versatile, for Liquids or Solids
- ✓ Maintenance-Free Convenience
- ✓ Rugged Potted Electronics Construction Defies Vibration
- ✓ NEMA 4 Housing
- ✓ No Moving Parts
- ✓ Adjustable Time Delay
- ✓ High or Low Failsafe
- ✓ Low Cost
- ✓ Tip Sensitive

The rugged construction and low cost of the LV750 Series level switch makes it a practical choice in a wide variety of applications for both liquids and solids, which may be electrically conductive or non-conductive. As a radio frequency switch, it can tolerate reasonable amounts of sticky build-up and still function flawlessly. For conductive liquids and materials with a high dielectric constant (greater than 30) that additionally have a tendency to “bridge” between the probe and container wall, a PTFE coated probe should be used. For chemical compatibility considerations, also request the 3/4" nipple.

### SPECIFICATIONS

**Power:** 95 to 130 Vac, (standard) or 190 to 260 Vac (optional) 50 to 60 Hz, 2 W, or 9 to 35 Vdc @ 100 mA (optional)  
**Relay:** DPDT (2 form “C”) dry contacts rated for 5 A Resistive @ 120 Vac or 28 Vdc

**Operating Temperature/Pressure Electronics:** -40 to 85°C (-40 to 185°F)  
**Probes:** 305 mm (12”) minimum length (standard) to 3.0 m (120”) (special)  
**Uncoated, Acetal Bushing:** -40 to 85°C (-40 to 185°F), 103 bar (1500 psig) @ 25°C (77°F), 0 psig @ 85°C (185°F)  
**Uncoated Bushing:** -40 to 232°C (-40 to 450°F), 103 bar (1500 psig) @ 25°C (77°F), 0 psig @ 232°C (450°F)  
**PTFE-Coated (with 316 SS nipple):** -40 to 232°C (-40 to 450°F), 103 bar (1500 psig) @ 25°C (77°F), 0 psig @ 232°C (450°F)



LV751 shown smaller than actual size.

**PTFE-Coated (with 3/4" nipple):**  
 -40 to 85°C (-40 to 185°F), 6.9 bar (100 psig) @ 25°C (77°F), 0 psig @ 232°C (450°F)  
**Minimum Dielectric:** 10 for standard probe  
**Wetted Parts:** 316 SS rod, 316 SS nipple, Acetal (or PTFE)

**Enclosure:** Cast aluminum, PVC optional  
**Time Delay:** 0, 5, 10, 15 second, selectable  
**Size:** 419 x 155 x 46 mm (16.5 x 6.1 x 1.8")  
**Weight:** 0.91 kg (2 lb)

### To Order

Model No.	Description
LV751	General purpose, 9.5 mm (3/8") diameter 316 SS rod, Acetal bushing, 1/2 NPT 316 SS nipple
LV752	General purpose, 9.5 mm (3/8") diameter 316 SS rod, PTFE bushing, 1/2 NPT 316 SS nipple
LV753A	PTFE-coated probe, 3/4 NPT 316 SS nipple, 19 mm
LV754	PTFE-coated probe, 3/4 NPT nipple, 19 mm

Comes complete with operator's manual.

To order with PVC housing, add suffix “-P” to model number, no additional cost.

To order with 9 to 35 Vdc power, add suffix “-DC” to model number, no additional cost.

To order with probe length greater than 12", add suffix “-(length in inches)” to model number, for additional cost.

**Ordering Examples:** LV754-240V-CC, 3/4" PTFE probe, 240 Vac power with clear acrylic cover. LV751, general purpose probe.