

ECONOMICAL CAPACITANCE LEVEL SWITCH

LVC-152-R
\$255



Single Switch
 Mounting Assemblies
 Available at:
omega.com/lvm50

LVC-152-R, \$255,
 shown actual size.

- ✓ Reliable Detection of Conductive, Light to Medium Coating Liquids
- ✓ Unique Coating Circuit Rejects the Negative Effects of Coating or Scaling Build-up
- ✓ All Plastic Construction with PP Materials for Corrosive Environments
- ✓ Probe and Cable Rated NEMA 6X (IP68) for Submersible Operation in Tanks or Sumps
- ✓ SPST Relay Standard
- ✓ Selectable Normally Open or Normally Closed Output States

Warning: Do not install sensor within 15.24 cm (6") of any metal object

APPLICATION

The LVC-152-R capacitance level switch is the perfect switch solution for conductive coating or scaling type liquids. The LVC-152-R is best applied in grounded vessels which contain water based, light to medium coating or scaling type liquids including soap, wastewater and brine solutions.

The LVC-152-R capacitance switch detects the presence of liquid or air by measuring the conductive or dielectric values which are present in all materials. The guard circuit rejects the negative effects of coating build-up on the probe by eliminating the coating signal path between the active and reference electrodes. As the probe tip becomes immersed in liquid, the capacitance effect is greatly increased and the switch changes state.

SPECIFICATIONS

Accuracy: ±1 mm (0.04") in water
Repeatability: ±0.5 mm (0.02") in water
Dielectric Range: >20 constants
Conductive Range: >100 micromhos
Supply Voltage: 12 to 36 Vdc
Consumption: 25 mA max.
Relay:
GP: 120 Vac/Vdc @ 1 A
CE: 60 Vac/Vdc @ 1 A
Switch Output: Selectable NO or NC
Temperature Rating: -40 to 90°C (-40 to 194°F)

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

Probe Material: Polypropylene
Probe Rating: NEMA 6X (IP68)

Mounting Threads: ¼ NPT

Cable Type: 3 m (10'), 4-wire, 22 gage with ground, shield & PP jacket

Dimension: 12.7 cm L (5.0") x ¼ NPT

Immersion Length: 7 cm (2.6") from bottom of threads to tip of probe

APPLICATION MATRIX

		Variable	Yes	No
Liquid	Foam	✓		
	Bubbles	✓		
	Conductive	✓		
	Non-conductive			✓
	Translucent	✓		
	Opaque	✓		
	Clean	✓		
	Dirty			✓
	Turbulent	✓		
	Non-coating	✓		
Tank	Light coating			✓
	Medium coating	✓	✓	
	Heavy coating			✓
	Metallic Tank	✓		
	Non-metallic Tank	✓		
	Hazardous			✓

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)

Model No.	Price	Description
LVC-152-R	\$255	Capacitance switch, 12.7 cm (5") long

Accessory

Model No.	Price	Description
ES-2208	\$130	Reference Book: Hands On Water and Wastewater Equipment Maintenance Volume II

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 to price. For 15.24 m (50') add suffix "-50" to model number, and \$40 to price.

Ordering Example: LVC-152-R level switch, \$255.

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