

## Product Features

- All stainless steel 316 construction, Teflon® isolator
- Probe bare stainless steel or PFA Teflon clad
- Integral electronic switching, relay output
- Set-point calibration via one wire
- Built-in slosh dampening
- Hermetically sealed, vibration resistant construction
- Operates on RF capacitance principle
- For conductive and non-conductive liquids
- Minimum or maximum limit detection

## Description

The LSC52 is truly a high quality sensor, which can be used in harsh environments, for liquid level limit detection in metallic and non-metallic tanks containing electrically conductive or non-conductive liquids. The probe, fitting and housing are constructed of stainless 316, the isolator is Teflon. The LSC52 sensors feature built-in protection against reverse polarity, overvoltage and electrical shielding to deliver long-term reliability. The output is relay SPDT which can be configured as either NO or NC or both NO and NC.

## Applications / Process Notes

- Limit detection for all type of liquids
- Use Teflon® clad probe for conductive liquids
- Use bare SS probe for clean non-clogging oils and fuels
- For side mount and bottom mount tank applications
- Leak detection
- Coolant level monitoring



## Stocked Items :

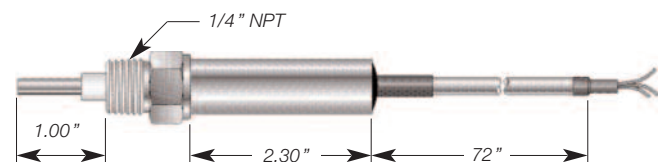
Model No.: LSC52-RL-PV-072-F14S-S-010-N (bare stainless steel probe)

Inventory No.: LSC52-001

Model No.: LSC52-RL-PV-072-F14S-T-010-N (PFA Teflon clad probe)

Inventory No.: LSC52-002

- LSC52, switch with 1" long probe, 1/4" NPT fitting and 6 feet of PVC cable.
- Relay output SPDT, can be used NO or NC, 6-wire



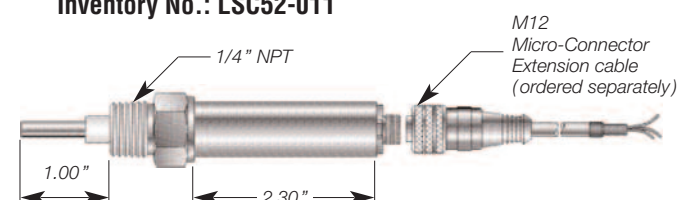
Model No.: LSC52-RL-M8-N-F14S-S-010-N (bare stainless steel probe)

Inventory No.: LSC52-010

Model No.: LSC52-RL-M8-N-F14S-T-010-N (PFA Teflon clad probe)

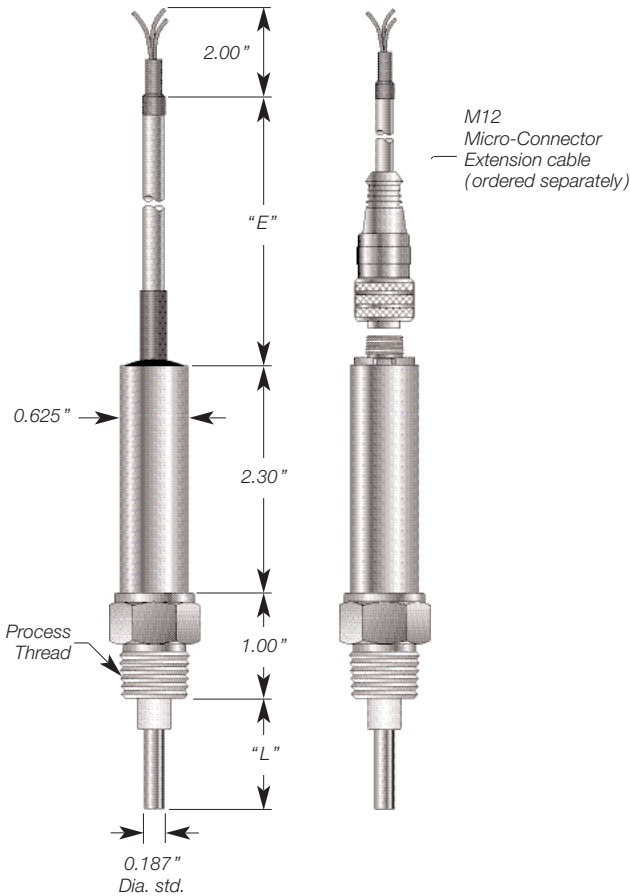
Inventory No.: LSC52-011

- LSC52 switch with 1" long probe, 1/4" NPT fitting and M12 Micro-Connector, 8-pin.
- Relay output SPDT, can be used NO or NC, 6 wire



# Model LSC52

## Miniature Capacitance Level Switch



### Electrical Specifications

<b>Supply Voltage :</b>	12VDC - 30VDC
<b>Output :</b>	Relay, SPDT; NO or NC
<b>Power Consumption :</b>	50mA @ 24VDC - 120mW max.
<b>Max. Load Capability :</b>	1A @ 30VDC; 0.3A @ 110 VAC
<b>Calibration :</b>	Set-point via one wire
<b>Damping :</b>	1sec. (factory set, std.)
<b>Capacitance Range :</b>	5 pF to 1000 pF
<b>Sensitivity :</b>	0.5 pF
<b>Circuit Protection :</b>	Reverse Voltage
<b>Probe Output :</b>	1 mA max, 1 VAC max @ 5 KHz
<b>Ambient Temperature :</b>	-40 to 85 °C (-40 to 185 °F)

### Mechanical Specifications

<b>Wetted Materials :</b>	Stainless steel 316 and PFA Teflon®
<b>Mounting Thread :</b>	Fitting stainless steel 316, 1/4" & 3/8" NPT standard
<b>Process Temperature:</b>	100 °C max (212 °F)
<b>Pressure Limits:</b>	100 psi (6.9 bar)
<b>Probe Material :</b>	PFA Teflon® jacketed or bare SS316
<b>Electrical Termination :</b>	Lead wires 22 AWG, or M12 Micro-Connector
<b>Moisture Protection :</b>	IP66/IP67 (NEMA 4X)

Teflon® is a registered trademark of E.I. du Pont de Nemours and Company.

## Custom Builder

MODEL	1	2	3	4	5	6	7
LSC52	-	-	-	-	-	-	-

BOX1 CODE	Output
RL	SPDT Relay, NO or NC
RO	SPDT Relay, NO only
RC	SPDT Relay, NC only

BOX3 CODE	Extension Cable Length "E" (M5 & M8 option)
N	None
A2	Straight, 2 meters
A5	Straight, 5 meters
B2	Right angle, 2 meters
B5	Right angle, 5 meters

BOX5 CODE	Probe Material
S	Stainless Steel 316 (for non-conductive liquids, clean)
T	PFA Teflon® clad (for conductive & non-conductive liquids)

BOX2 CODE	Extension
PV	PVC Insulation, 90°C (195°F) max.
TF	Teflon® Insulation, 200°C (392°F) max.
TA	Teflon® w/SS Armor, 200°C (392°F) max.
TS	Teflon® w/SS Overbraid, 200°C (392°F) max.
M5	M12 Micro-Connector 5 pin male (for RO and RC output)
M8	M12 Micro-Connector 8 pin male (for RL output only)

BOX4 CODE	Fitting Type
F18S	1/8" NPT, SS316
F14S	1/4" NPT, SS316
F38S	3/8" NPT, SS316
F12S	1/2" NPT, SS316

BOX6 CODE	Probe Length "L"
---	In 0.1 inch increments (36" max.) Ex.: 025 = 2.5" long (1.0" std.)

BOX7 CODE	Options
N	None

Other fittings available. Consult factory.