

FM19/29 - Offset Multi-Level Liquid Sensor

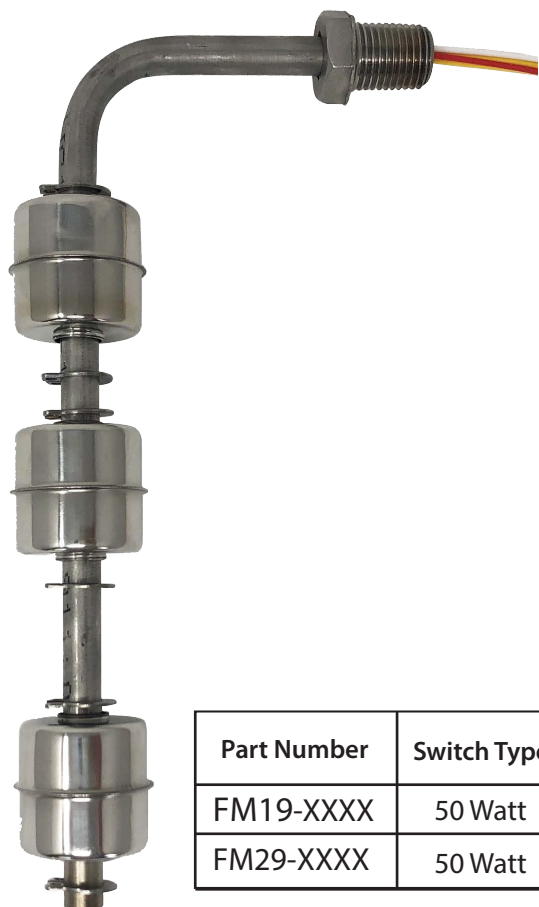
The FM19/20 offset multilevel liquid level sensors mainly consists of internal magnetic reed switches and up to 4 floats for the FM19 and up to 5 floats for the FM29 model. The offset stem allows for incorporating a multilevel liquid height detection using a side mount configuration. This sensor has designed characteristics such as compact size, simple working principle, highly reliable and inexpensive. The electrical parameters can be changed in accordance with client's requirement, and special specification can also be customized.

When the level of the tank's liquid rises or falls past the level of the float, the float will rise and fall with it, activating the switch. Wires then send an electric signal to the outside of the tank through the watertight seal, making these components essential for accurate monitoring or regulation of fluid levels in many contexts. Like side-mounted switches, 90 degree mount float switches are mounted through the side of a tank. However, they function as vertically mounted switches, with doughnut-shaped floats rising and falling with the level of the liquid around stems, actuating reed switches inside the stems.

Application

This product can be used in liquid level control for:

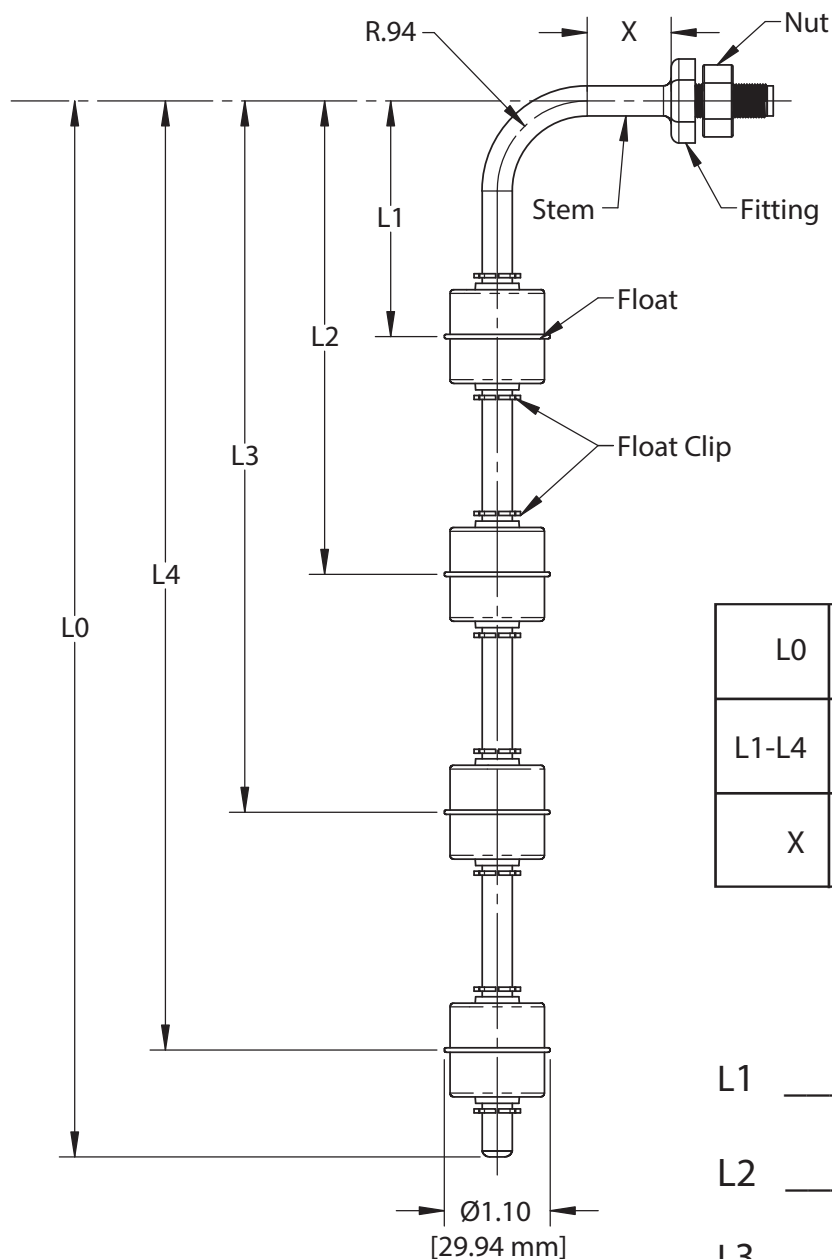
- humidifiers,
- water dispensing equipment
- water heater
- solar energy
- air conditioning
- oil tank
- water tower



FM19 - Stainless steel four multi-level floats with offset stem

FM29 - Stainless steel five multi-level floats with offset stem

Part Number	Switch Type	Max Switching Current	Max Switching Voltage	Max Temp	Max Pressure	Specific Gravity
FM19-XXXX	50 Watt	0.5 Amps	250 VDC	150° C	250 psig	0.60
FM29-XXXX	50 Watt	0.5 Amps	250 VDC	105° C	100 psig	0.70



FM19

Materials	
Stem	SS 316L
Float	
Float Clip	
Wires	24AWG, TEFLON

L0	Total Height	*Max Total Height 90" [7.5']
L1-L4	Level Height	2.5" between levels
X	Stem Length	Min 15/16" Straight Length Tubing

L1 _____" ☐ NC ☐ NO ☐ SPDT

L2 _____" ☐ NC ☐ NO ☐ SPDT

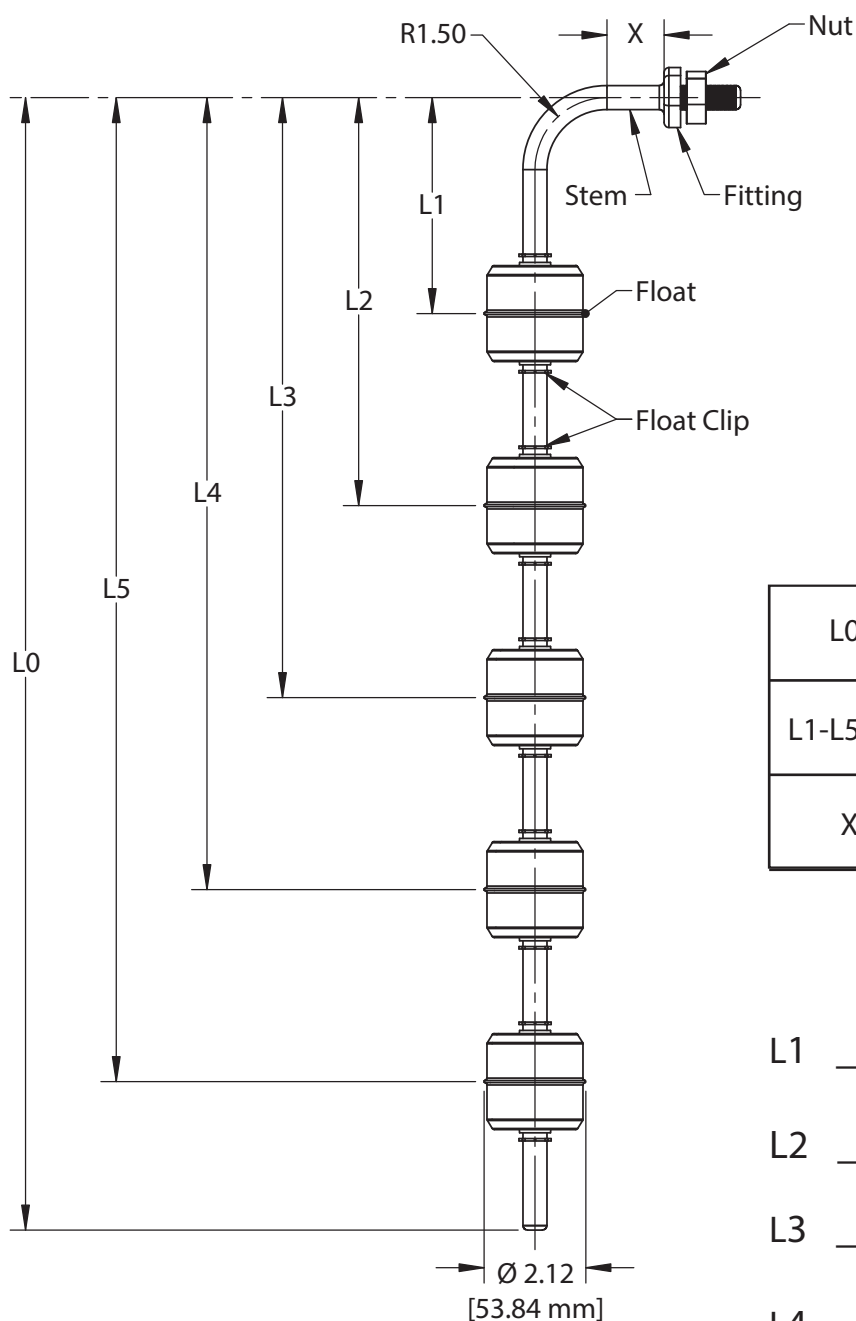
L3 _____" ☐ NC ☐ NO ☐ SPDT

L4 _____" ☐ NC ☐ NO ☐ SPDT

L0 _____" Length Overall

NOTE:

1. ACTUAL COMPONENTS (FITTING, NUT, ETC) MAY NOT APPEAR AS SHOWN



FM29

Materials	
Stem	SS 316L
Float	
Float Clip	
Wires	24AWG, TEFLON

L0	Total Height	*Max Total Height 90" [7.5']
L1-L5	Level Height	2.5" between levels
X	Stem Length	Min 1 3/16" Straight Length Tubing

L1 _____" ☐ NC ☐ NO ☐ SPDT

L2 _____" ☐ NC ☐ NO ☐ SPDT

L3 _____" ☐ NC ☐ NO ☐ SPDT

L4 _____" ☐ NC ☐ NO ☐ SPDT

L5 _____" ☐ NC ☐ NO ☐ SPDT

L0 _____" Length Overall

NOTE:

1. ACTUAL COMPONENTS (FITTING, NUT, ETC) MAY NOT APPEAR AS SHOWN

Fill in configuration sheet and application specifications and return for quote or order.

Choose a Part

☐ **FM19**

15/16" Stem Diameter

☐ **FM29**

1 3/16" Stem Diameter

Float Stops

☐ 300 Series SS Grip Rings
(Standard)

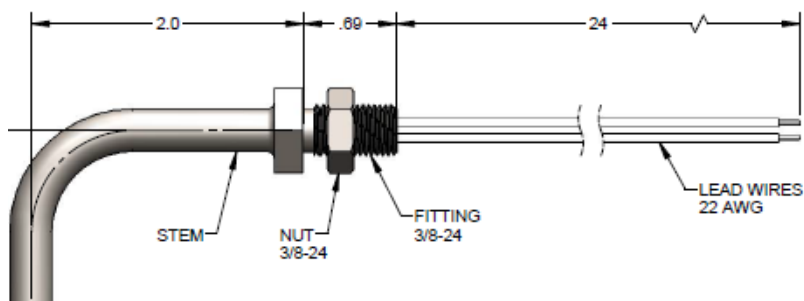
☐ 316 SS Collars with Set Screw

Wire Type

22 Awg Teflon (Standard)

Lead Length _____ inches
24" (Standard)

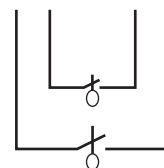
Mounting Type



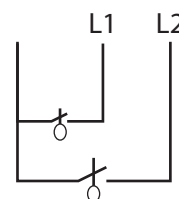
Standard mounting type

Wiring Configuration

☐ **Separate**
(Standard)



☐ **Common**



NOTE: Switch Points measured from bottom of mounting surface to switch actuation at °oa t center. Please check Normally Closed (NC), Normally Open (NO) or Single Pole Double Through (SPDT)



Application Specification Sheet

Name: _____ Company: _____

Address: _____

City: _____ State: _____ Zip: _____

Email: _____ Telephone: _____

Application Description: _____

Fluid Type: _____ Temp: _____ ☐ °C or ☐ °F Pressure: _____ psig

Tank or Contact Materials: _____ Voltage: _____

Application have a Pump? If Yes: ☐ Pump Up ☐ Pump Down

Electrical Device or
Output to be Controlled: _____ Power: _____

Estimated Purchase Quantity: _____ Price Target: \$ _____