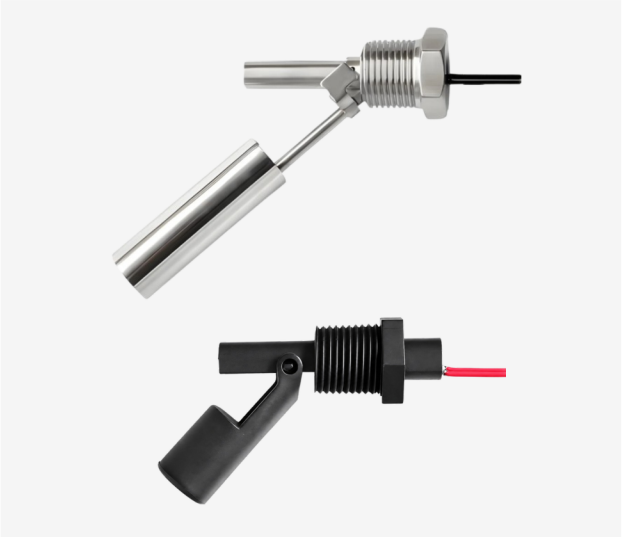
LHF Series

Horizontal Float Switch Level Sensors

LHF Series Horizontal Liquid Level Sensors are a compact, side-mounted float switch designed for reliable point-level detection in tanks and reservoirs. A float follows the liquid level and magnetically actuates a hermetically sealed reed switch, providing dependable ON/OFF control without standby power. The LHF is ideal where top or bottom mounting is impractical, or space is limited. Available with Normally Open (NO), Normally Closed (NC) or Changeover (CO) contacts, it is available in Metric and Pipe-thread mounting options, a range of materials Plastics and Stainless Steel, making it suitable for use in applications across Automotive, HVAC, Industrial and Test equipment.



- Side-mounted installation
- Compact design for space-constrained equipment and shallow tanks
- No standby power required
- Reliable magnetic switching - hermetically sealed reed switch is isolated from the liquid
- Flexible switching options
- IP67 protection suitable for industrial environments
- -40℃ to 160℃ temp range (material-dependent)
- High-voltage versions rated up to 1000V / 100W.
- Multiple float and stem materials available
- OEM customisation — mounting threads, materials, switching level/angle, cable and connectors can be tailored.

Specifications & Materials:

Sensor Type	Float / Level
Orientation	Horizontal (Float Up or Down)
Stem Material	Plastic (PA/PP) / Metal (Stainless Steel)
Float Material Options	PP (Water / Dilute Acids) / PA (Oil) / NBR (Gasoline) / SS (High Temp)
Recommended Liquid Density	≥ 0.75 g/cm³
Float Specfic Gravity (Typical)	0.65 - 0.85 (Material Dependent)
Ingress Protection	IP67
Mounting Thread	Metric / BSP / NPT
Switch Tolerance	0° to 15°
Switch Angle	15° to 30/45° as specified
Switch	Normally Open (NO) / Normally Closed (NC) / Changeover (CO)
Operating Temperature Range	-20℃ to +80℃ (Plastic) / -40℃ to +160℃ (Stainless Steel)
Vibration Resistance	30g
Shock Resistance	30g
Cable Material	PVC (Standard) / Teflon (Optional)
ROHS Status	Compliant

LHF Series

Horizontal Float Switch Level Sensors

Electrical Specifications:

	Low Voltage	High Voltage
Rated Power	10W	100W
Switch Voltage	100V	1000V
Switch Current	1A	1A
Carry Current	1.25A	2.5A
Contact Resistance	400mΩ	
Insulation Resistance	≥100 MΩ @ 500VDC	
Dialectric Strength	1500VAC / 60s	2500VAC / 60s
Electrical Life	≥1 x 10^5 Operations (Resistive Load)	

Part Number Configurator:*

				Example:	LHF	A	5	37	NO	L	40
Series:	LHF										
Material Type:	A - Polypropelene (PP)	B - Polyphenylene Sulfide (PPS)	C - Polyamide (PA)	D - Polyvinyl Chloride (PVC)	E - Stainless SUS304	F - Stainless SUS316					
Thread:	1 - M6	2 - M8	3 - M10	4 - M12	5 - M16	6 - 1/8NPT	7 - 1/2NPT	8 - 1/8BSP	9 - G1/2BSP		
Arm Length (mm):	xxx										
Switch Output:	NO - Normally Open	NC - Normally Closed	CO - Changeover								
Voltage:	L - Low Voltage	H - High Voltage									
Cable Length (cm):	xxx										

LHFA537-NOL-35 : Horizontal Float Switch, Polypropelene, M10 Thread, 37mm Arm, Normally Open, Low Voltage, 40cm Cable

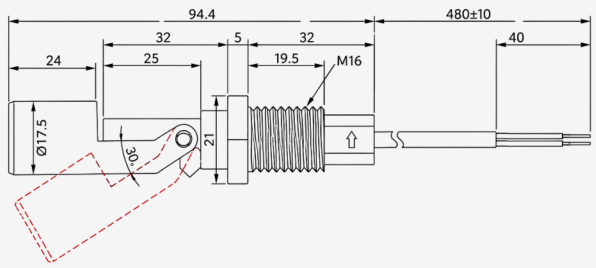
*All options available on request, MOQ dependendent.
Please contact us with your requirements for more details.

LHF Series

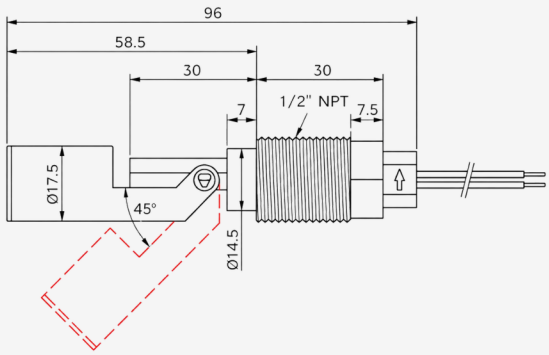
Horizontal Float Switch Level Sensors

Dimensions:

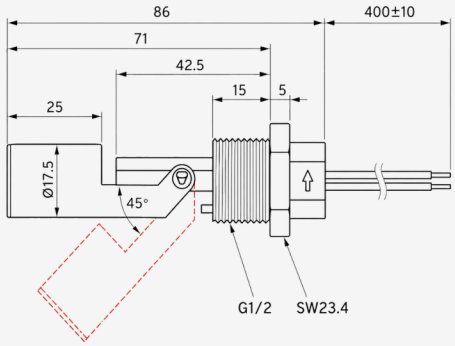
LHFA537-NOL-40



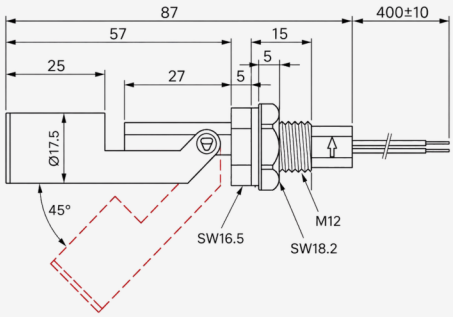
LHFA730-NOL-40



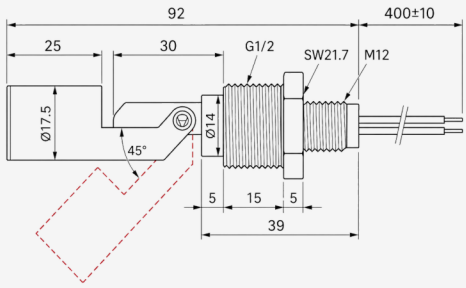
LHFA947-NOL-40



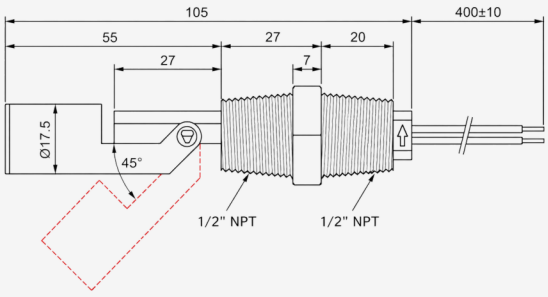
LHFA442-NOL-40



LHFA945-NOL-40



LHFA727-NOL-40

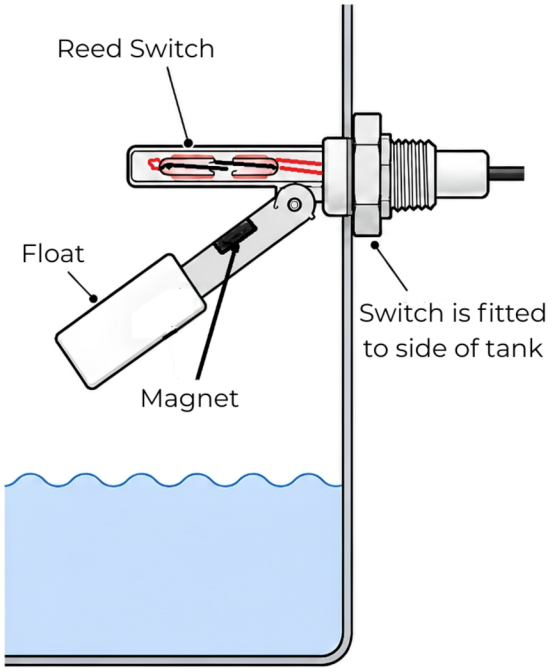


LHF Series

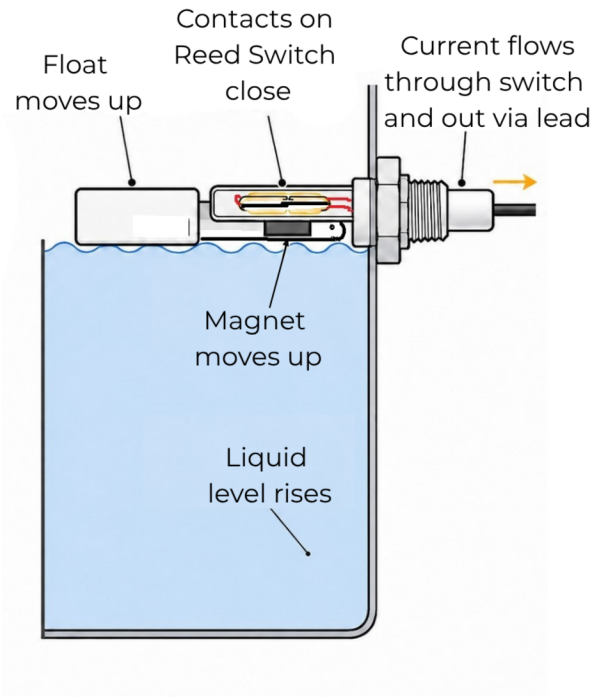
Horizontal Float Switch Level Sensors

Application Notes / Examples:

Low Liquid Level
Switch Open



High Liquid Level
Switch Closed



Also available

LVF Float Switch (Plastic)



LVF Float Switch (Stainless)



LHVF Float Switch

