

LS05 Series Liquid Level Sensors

DESCRIPTION

The LS05 Liquid Level Sensors reach new levels! Made of tough stainless steel tubing, these sensors can be customized up to 6.5 feet in length, detect multiple liquid levels and withstand exposure to many chemical solutions, high pressure and high temperatures.

FEATURES

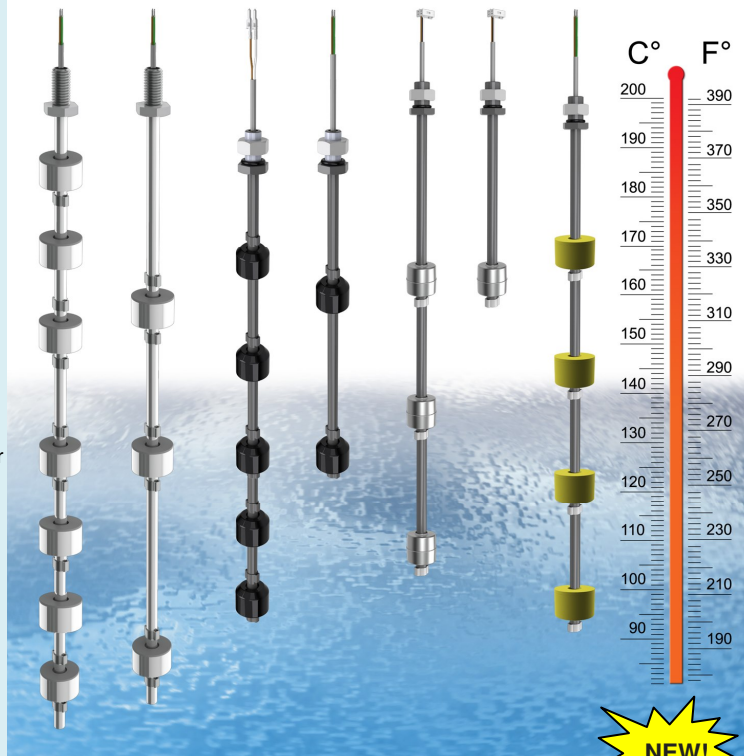
- High temperature up to 200 °C
- High pressure resistance to 12bar
- Single, multiple and continuous levels
- Multiple magnetic floats
- Customizable components and configurations
- Various mounting options
- Hermetically sealed
- Dynamically tested contacts
- Millions of reliable operations

APPLICATIONS

- Agricultural equipment
- Automobiles
- Continuous level monitoring
- Food & beverage equipment
- Humidifiers
- Laboratory equipment
- Process control equipment
- Recreational vehicles
- Refrigerated trucks
- Watercraft

MARKETS

- Automotive, Aviation, Marine,
- Logistics, Asset Management,
- Food & Beverage, Electronics,
- Laboratory, Industrial, Agriculture,
- Recreational Vehicles, Appliance



- Choose from hundreds of preselected material options to customize a sensor that will monitor and detect single, multiple or continuous fluid levels
- Robust design can withstand high temperatures up to 200 °C and high pressure up to 12 bar
- Reservoir, tank, bottle or other container mounting configurations
- Select from many Reed Switch combinations switching low or high voltages up to 1000 Volts
- Suitable for sensing single or multiple fluid types in the same tank.
- Well suited with drinking water, oil, greases, lubricants, anti-freeze, brake fluid, diesel fuel, power steering fluid, petroleum-based solvents, gasoline, kerosene, water, water-based cleaning solutions, or other non-aggressive fluids.



Reaching New Levels & New Mediums for Millions of Operations!

The LS05 Series Liquid Level Sensors is the most diverse level sensor yet, combining hundreds of standard options ranging from switching power and connectivity to fluid types and number of liquid levels. The LS05 housing stem, constructed of V2A stainless steel can vary in length up to 6.5 feet long and hold any number of magnetic floats with a minimum spacing of 1.5" between them. Its stainless steel housing will withstand high pressure up to 12bar and temperatures up to 200 °C when coupled with stainless steel floats. Choose from 10 different magnetic floats, available in four different materials: Polyamide (PA), Polypropylene (PP), Nitrile Butadiene Rubber (NBR) and Stainless Steel (V2A).

Mix and match more than one float material to detect multiple fluid types in the same tank, such as in a diesel tank that may build up water condensation over time. The LS05 can be mounted to the top or bottom of a tank or reservoir using a number of different mounting options. Using our OKI and KSK Reed Switches, the LS05 can switch low and high voltages up to 1000 Volts and produce single, multiple or continuous output signals. The LS05's multitude of standard options simplify the process of designing a liquid level sensor for such a diverse array of liquid detection applications.

LS05 SERIES STANDARD MATERIAL OPTIONS

Housing / Stem Characteristics (Contact us for custom housing requirements)

Housing / Stem Material	Float Material	Operating Temperature	Housing Length	Switch Rating	Housing / Stem Diameter	Mounting Thread
Stainless Steel	PA, PP, or NBR	-30°C to +120°C	80mm-2000	1W-100W	7-16mm	Metric M10-M30
Stainless Steel	Stainless Steel	-40°C to +200°C	80mm-2000	1W-100W	7-16mm	Standard or NPT

Float Characteristics (Contact us for custom float requirements)

Float Part Number	Material	I.D. x O.D. x Ht Nominal (mm)	Weight (g)	Liquid
2500000011	MS02-PA	Polyamide	9.15 x 25.4 x 1 6.55	4.15-4.36
2500000006	MS07-PA	Polyamide	16.15 x 36.0 x 19.0	10.1-11.5
2500000009	MS01-NBR	Nitrile Butadiene Rubber	8.35 x 23.5 x 19.0	3.5-3.9
2500000017	MS02-NBR	Nitrile Butadiene Rubber	9.15 x 25.0 x 16.50	3.9-4.5
2500000007	MS01-PP	Polypropylene	8.1 x 23.5 x 19.0	3.5-3.9
2500000010	MS02-PP	Polypropylene	9.15 x 25.4 x 16.55	4.15-4.36
2500000023	MS03-PP	Polypropylene	11.0 x 27.0 x 11.7	3.5-4.0
2500000024	MS04-PP	Polypropylene	10.2 x 25.0 x 18.5	2.5-3.2
2500000029	MS09-S	Stainless Steel (V2A)	9.5 x 24.0 x 24.0	5.0-5.5
2500000030	MS10-S	Stainless Steel (V2A)	9.5 x 38.3 x 26.3	5.5-6.5

Cable Characteristics (Contact us for custom cable requirements, i.e. wire size, termination, connectors, length, UL etc.)

Comparison with Other Materials Floats

Conditions	NBR Float	Stainless Steel	Plastic Foam	
Cut and Break	⊙	△	△	⊙ <i>ideal</i>
Temperature Resistance	⊙	⊙	X	
Resistance to Fuels, Oils	⊙	⊙	△	△ <i>suitable</i>
Shock Resistance	⊙	△	△	
Metal Inserts	⊙	△	⊙	X <i>not suitable</i>
Magnet Inserts	⊙	⊙	⊙	
Water Pressure Resistance	△	⊙	X	
Anti-corrosion	⊙	⊙	△	
Price Range	⊙	X	△	
Food Applications	X	⊙	⊙	
Drinking Water	X	⊙	⊙	

THINKING OUTSIDE THE BOX

