

### LS04 Series Liquid Level Sensors

**DESCRIPTION**

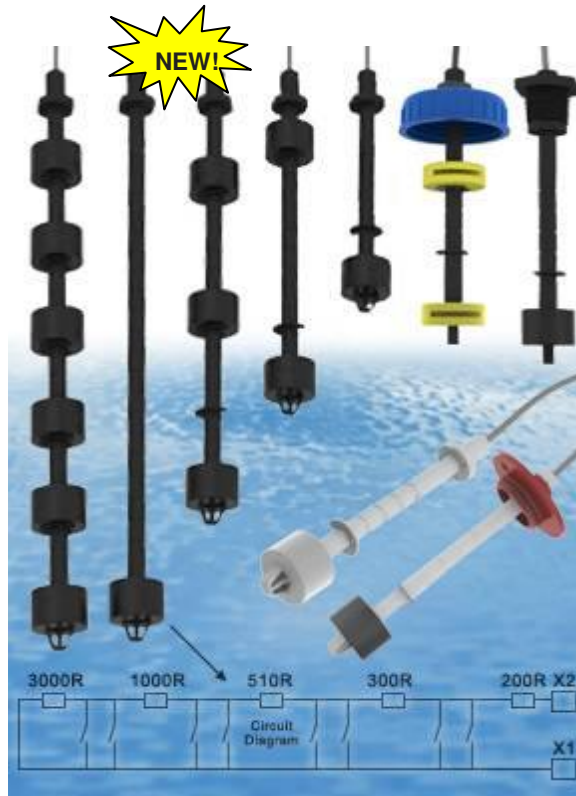
The LS04 Liquid Level Sensors are a versatile multi-point level sensor made of plastic which can be customized to hold up to 6 magnetic floats and mount to either the top or bottom of a tank using various mounting options.

**FEATURES**

- Single-point and multi-point fluid level detection
- Up to six magnetic floats
- Customizable housing options
- Customizable wire termination
- Various mounting options
- Hermetically sealed
- Dynamically tested contacts
- Millions of reliable operations

**APPLICATIONS**

- Drinking water, brake fluid, oil, gasoline, coolant, power steering & other liquid reservoirs
- Automobiles
- Watercraft
- Recreational Vehicles
- Refrigerated Trucks
- Agricultural Equipment
- Humidifier
- Cooling Tank-Construction Equipment
- Pond & Pool Systems
- MARKETS**
- Automotive, Aviation, Marine, Logistics, Asset Management, Food & Beverage, Home Appliance, Laboratory, Industrial, Agriculture, Recreational Vehicles, Electronics

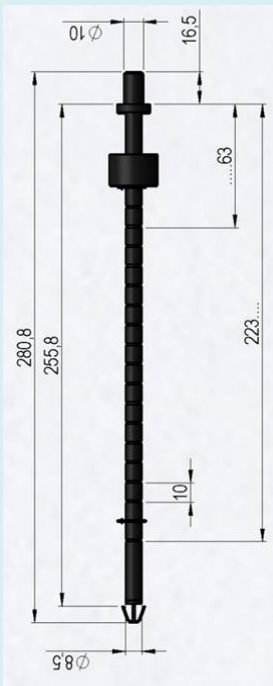


- The LS04 Series offers versatility with multi-point fluid level detection with up to six magnetic floats
- Customizable housing; material (PA or PP), length, and wire termination
- Reservoir, tank, bottle or other container mounting configurations
- Select from many Reed Switch combinations from low to high power
- Suitable for sensing Brake fluid, Oil, Gasoline, Coolant, Power Steering fluid and other liquids

Our LS04 Series Liquid Level Sensors can detect any number of liquid levels with as many as 6 magnetic floats and many combinations of Reed Switches. The LS04 housing tube comes in two different plastic options, Polyamide (PA) and Polypropylene (PP) and standard lengths ranging from 80mm [3.14"] to 250mm [9.84"]. The polypropylene version is ideal for water and diluted acids and the polyamide version is suitable for use in oil, gasoline (petrol), and brake fluid level detection. While the standard LS04 series is equipped with a 500mm long, round PVC cable, many other wire termination options are available as with many of our sensors, including connectors.

The LS04 Series can be mounted to the top or bottom of a tank, reservoir, or bottle in any number of different ways. The different mounting options for the LS04 liquid level sensor include but are not limited to using an o-ring and threaded NPT nut, a threaded screw cap, or a sealed screw mount cap. A full range of power switching options are available in the LS04 using our KSK Series Reed Switches. Whether your application requires fluid level detection at low levels, high levels or multiple levels, the LS04 Series provide a simple, dependable, and low cost solution.

LS04 STEM DIAGRAM



### LS04 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
Nylon	PA, PP, or NBR	-30°C to +120°C	80-250mm	1W-100W	8.5mm	M10x1,5
Polyamide	PA, PP, or NBR	-30°C to +120°C	80-250mm	1W-100W	8.5mm	M10x1,5
Polypropylene	PA, PP, or NBR	-30°C to +120°C	80-250mm	1W-100W	8.5mm	M10x1,5
Float Characteristics (Contact us for custom float requirements)						
Float Part Number / Model		Material	I.D. x O.D. x Ht Nominal (mm)	Weight (g)	Liquid	
2500000011	MS02-PA	Polyamide	9.15x25.4x16.55	4.15-4.36	Oil, all kinds of fuels	
2500000017	MS02-NBR	Nitrile Butadiene Rubber	9.15x25.0x16.50	3.9-4.5	Oil, all kinds of fuels, brake fluid, In general NBR can be used for higher temperatures and has a higher buoyancy.	
2500000010	MS02-PP	Polypropylene	9.15x25.4x16.55	4.15-4.36	Water, Water-based liquids, non-aggressive liquids and solvents, such as cleaners, gasoline and alcohols	
2500000023	MS03-PP	Polypropylene	11.0x27.0x11.7	3.5-4.0		
2500000024	MS04-PP	Polypropylene	10.2x25.0x18.5	2.5-3.2		
2500000029	MS09-S	Stainless Steel (V2A)	9.5x24.0x24.0	5.0-5.5	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.	
2500000030	MS10-S	Stainless Steel (V2A)	9.5x38.3x26.3	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	⊙	⊙	

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