

## **CAPACITIVE LEVEL SWITCH**

**SUITABLE FOR LOW BULK DENSITY  
AND AERATED MATERIALS**

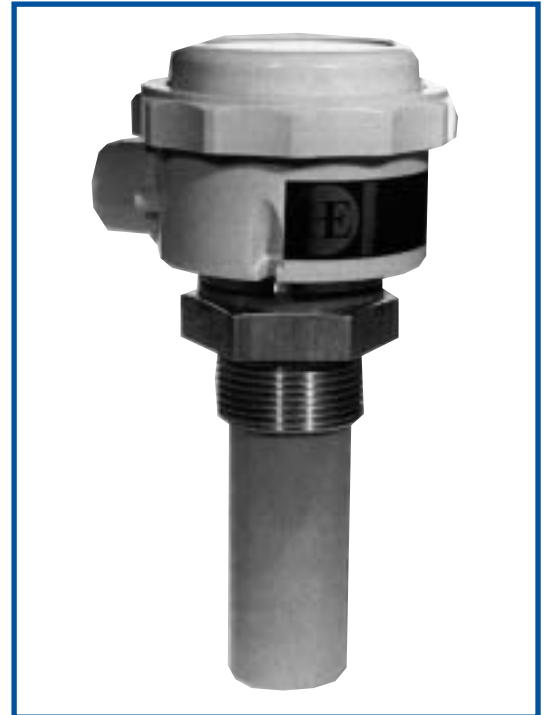
**IGNORES COATING AND BUILD-UP**

**DETECTS LEVEL THROUGH  
NON-METALLIC CONTAINER WALLS**

**OIL / WATER INTERFACE DETECTION  
VERSIONS AVAILABLE**

**IDEAL FOR DIFFICULT APPLICATIONS**

**SELF CONTAINED, LOW COST AND  
SIMPLE TO INSTALL**



The L.S. MAGICAP level switch comprises of a sealed insulated probe containing the sensing circuitry attached to an ABS terminating head.

The terminating head houses the switching relay, LED indicator, sensitivity potentiometer and terminals.

Powered from a nominal 24v D.C. supply (15 to 30v D.C.) or 12v A.C. the L.S. MAGICAP provides a S.P.C.O. voltage free contact rated at 5 amp at 240v A.C. resistive. Proven high sensitivity 'MAGICAP' detection circuitry can be easily adjusted on site to provide optimum performance under difficult conditions.

### **APPLICATIONS**

The L.S. MAGICAP has been successfully applied to the following:-

Liquids ..... Alcohol, Benzine, Diesel Oil, Distilled Water, Edible Oils/Fats, Petrol, etc.

Viscous Materials .... Epoxy Adhesives/Resins, Latex Rubber, Molasses, Pottery Slip, etc.

Granulars ..... From free flowing powders to aggregates e.g. Cement, Lime, Flour, Pigments, Sugar, Grain, Wood Shavings, Frozen Vegetables, ABS Pellets, Potatoes, Coal, etc.

<b>Insertion Length:</b>	LS1	Standard	L = 98mm
	LS1/E/305	Extended Length	L = 305mm
	LS1/E/610	Extended Length	L = 610mm
	LS1/ADJ/305	Ajustable L between 180 and 305mm	
	LS1/ADJ/610	Ajustable L between 180 and 610mm	
	LS1/E/X	Extended any dimension X	L between 180 and 2500mm
	LS4	Heavy Duty	L = 0 to 51mm
	LS8	High Temperature	L = 98mm

**Process**

**Temperature:** LS1 to LS4 -20° to +80°C  
 LS8 -20° to +200°C at tips  
 (20° to +80°C at termination head)

**Ambient**

**Temperature:** All models -20° to +80°C

**Operating**

**Pressure:** 500 psi at 20°C (Except LS1/ADJ & LS4)

**Weatherproof:**

IP67

**Housing Material:** ABS (316 SS to special order)

**Probe Material:** 316 SS union/polypropylene \*body

**Weight:** LS1 = 550g, LS8 = 850g

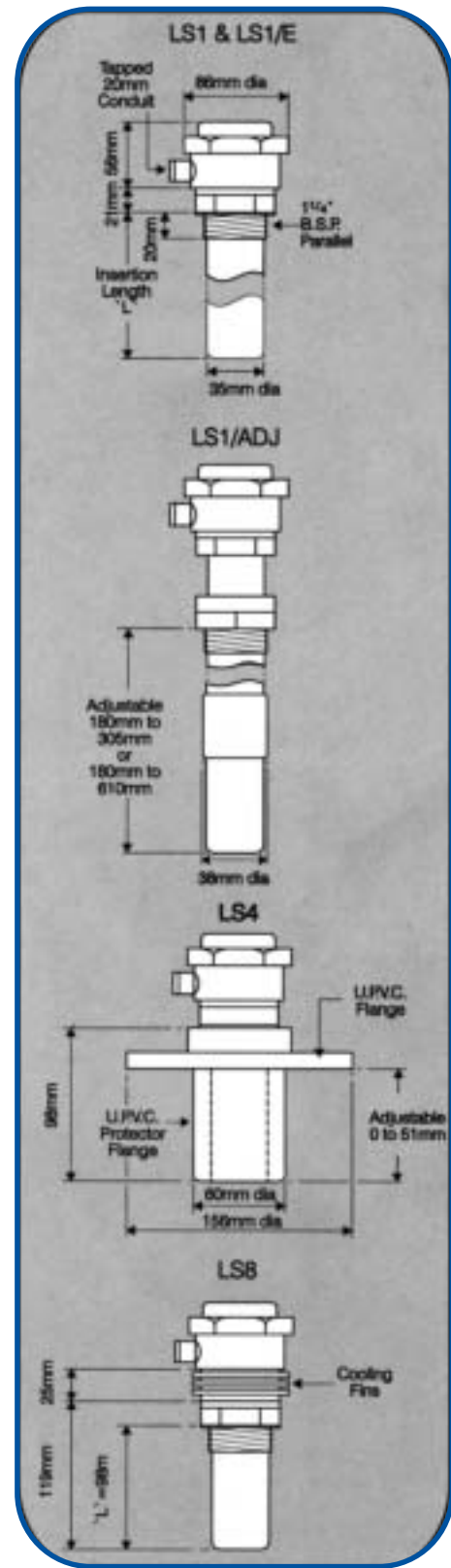
\* For elevated temperatures and compatibility with a broad range of solvents, mineral and organic acids and alkalis 'RYTON' is recommended. (Standard on LS8)

**Supply** Operates on 15 to 30v D.C. or 12v A.C. 50Hz 1.5 volts  
**Relay output:** S.P.C.O. voltage free contact rated 5 amp,  
 240v A.C. resistive.

**Sensitivity:** Adjustable by potentiometer in head with LED to indicate relay status.

**ORDER CODE**

MODEL	
LS1	Standard L = 98mm
LS1/E/305	Extended L = 305mm
LS1/E/610	Extended L = 610mm
LS1/ADJ/305	Ajustable L = 180 to 305mm
LS1/ADJ/610	Ajustable L = 180 and 610mm
LS1/E/X	Extended any dimension between L = 178 and 2500mm
LS4	Heavy Duty with Flange L = 0 to 51mm
LS8	High Temperature L = 98mm with Ryton Tube
<b>PROBE MATERIAL OPTION</b>	
	R Ryton
LS1/E/2000mm	/R Example of typical order information
KS1	Optional 12v A.C. power supply suitable to power up to 2 L.S. Magicap units. Supply voltage 110v or 240v A.C. (Please state in order)



*Measurement Resources Pty Ltd*  
 A.C.N. 003 247 738

**HEAD OFFICE & FACTORY**

33 – 37 College Street  
 P.O. Box 145  
 Gladesville, N.S.W. 2111 Australia  
 Telephone: (02) 9816 3377, Fax: (02) 9816 3806  
 International Code: 61 + 2 **NATIONAL FREE CALL NUMBER: 1 800 626 476**

THE COMPANY RESERVES THE RIGHT TO MODIFY THIS DESIGN WITHOUT NOTIFICATION