



HAWKER

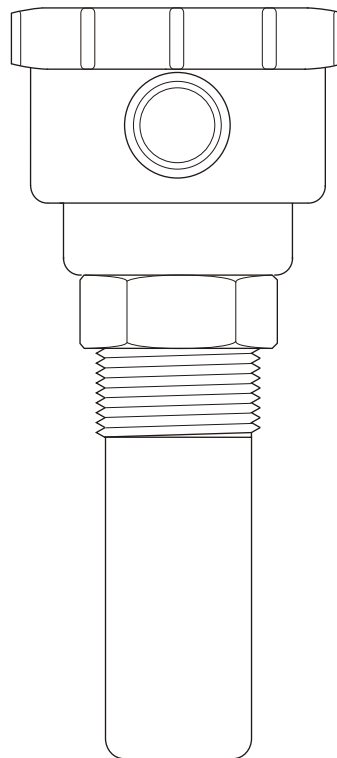
LEVEL CONTROL SYSTEMS

L.S. MAGICAP

Stand Alone Probe

Capacitive Level Switch
for Liquids, Slurries,
Granulars & Interface

- 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 polypropylene terminating head. The terminating head houses the switching relay, LED indicator, sensitivity potentiometer and terminals. Powered from a nominal 24VDC supply (15 to 30VDC), or 12VAC the L.S. Magicap provides a S. P. C. O. voltage free contact rated at 240VAC 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.

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

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



HAWKER

TECHNICAL SPECIFICATIONS

Technical Data

Insertion Length:

LS1	Standard	L = 98mm
LS1/E/305	Extended Length	L = 305mm
LS1/E/610	Extended Length	L = 610mm
LS1/ADJ/305	Adjustable L between	180mm and 305mm
LS1/ADJ/610	Adjustable L between	180mm and 610mm
LS1/E/X	Extended any dimension X	L between 180mm 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 tip (-20° to +80° C at termination head).

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

Operating Pressure: 500 psi @ 20° C (except LS1/ADJ & LS4)

Weatherproof: IP67

Connection: 1¼" B.S.P. Parallel

Housing Materials: Polypropylene (316 SS to special order)

Probe Materials: 316 SS Union/Polpropylene * body

Weight: LS1 = 550g, LS8 = 850g

* For elevated temperatures and compatibility with broad range of solvents mineral and organic acids and alkalis 'Ryton' is recommended (standard on LS8),

Electrical Data

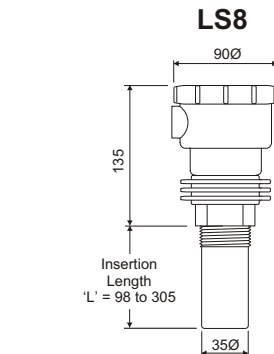
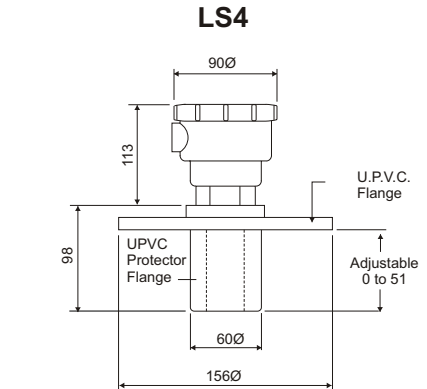
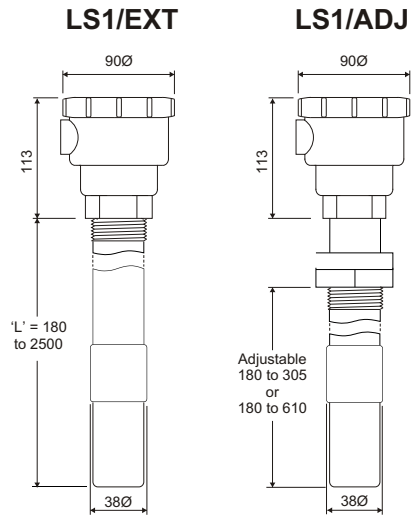
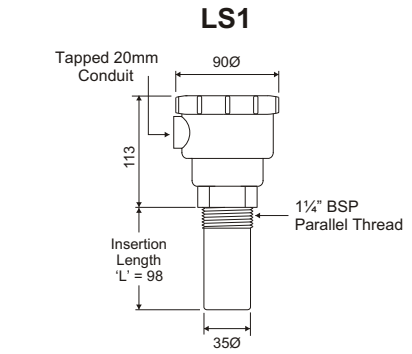
Supply: Operates on 15 to 30V dc or 12V ac 50Hz 1.5Watts

Relay Output: SPCO voltage free contact rated 5 amp 230V ac resistive

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

Ordering Information

Model	Description
LS1	Standard L = 98mm
LS1/E/305	Extended L = 305mm
LS1/E/610	Extended L = 610mm
LS1/ADJ/305	Adjustable L = 180 to 305mm
LS1/ADJ/610	Adjustable L = 180 to 610mm
LS1/E/X	Extended any dimension between L = 178 and 2800mm
LS4	Heavy Duty with flange L = 0 to 51mm
LS8	High temperature L = 98mm with Ryton tube
	Probe Material Option
	Ryton
LS1/E/2000mm/R	Example of typical order information
DC UC1	Optional 24V dc power supply suitable to power up to 2 LS Magicap units. Supply voltage nominal 24V dc



Because of continuing development we reserve the right to change the specifications without notice

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