



HAWKER

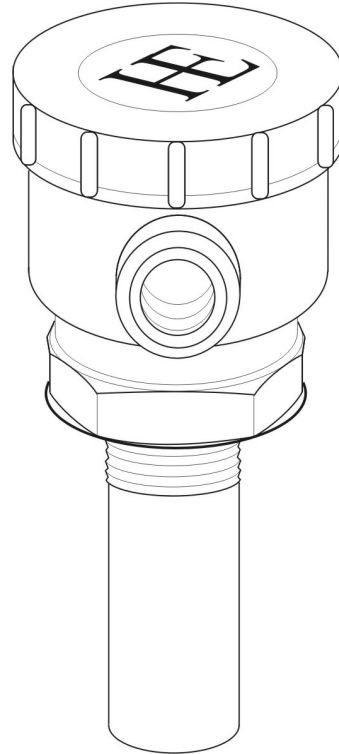
LEVEL CONTROL SYSTEMS

Stand Alone Probe

L.S. MAGICAP

 ...capacitive level switch for liquids, slurries, granulars and 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, L.E.D. indicator, sensitivity potentiometer and terminals. Powered from a nominal 24V D.C supply (15 to 30V D.C), 12V AC, or 12V DC (LS1/12). The L.S. Magicap provides a S. P. C. O. voltage free contact rated @ 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.

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 shaving, frozen vegetables, abs pellets, potatoes, coal.



HAWKER

TECHNICAL SPECIFICATION

Technical Data

Insertion
Length:

LS1	Standard length 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 material:

Polypropylene (316 SS to special order)

Probe material:

316SS union/polypropylene * 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

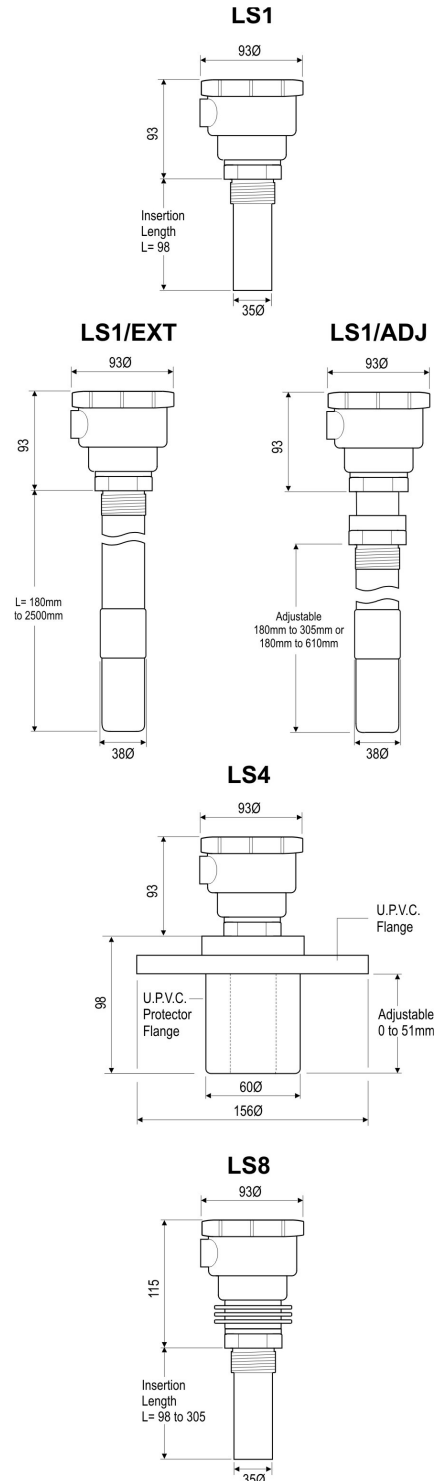
Supply: LS1 Operates on 15 to 30V D.C or 12V A.C 50Hz 1.5 Watt
LS1/12 Operates from 12V DC (10.5V DC – 18V DC)

Relay Output: S.P.C.O. voltage free contact rated 5 amp 230V A.C 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 dim 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 D.C power supply suitable to power up to two LS magicap units. Supply voltage nominal 24V D.C



This product has been designed and complies to the relevant standards as listed in its certificate of conformity. The installer/user must ensure compliance.
The crossed-out bin symbol, placed on the product, reminds you of the need to dispose of the product correctly at the end of its life.
Because of continuing development we reserve the right to change the specifications without notice

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FM 10000



BRITISH MADE