Immersion heater safety device

The LS product range monitors, controls and protects immersion heaters.

If the water level in the header tank falls and is not maintained the immersion heater is at risk! In conjunction with a simple level switch, the control system prevents dry firing of the element. The system monitors and indicates a low water level and as a safety feature removes power from the immersion heater.

The range consists of both 3kW (LS3) and 4kW (LS4) rated products each of which can be supplied with or without boost functionality (LS3 Plus and LS4 Plus).

The LS4 Plus is a unique product in its own right, combining boost control with 4kW load rating in a single unit.

Main features

- Fluid level monitor available for 3kW or 4kW as required
- Automatic float switch monitor and immersion heater protection
- 4kW unit provides thermostat control
- Status LED on standard unit
- Multiple LED's for instant feedback on LS Plus units
- Optional boost control with 4 settings (30, 60, 120 minutes & continuous)
- Can be used for Boost functionality only



LS range, level sensing immersion heater controllers



LS3 Plus 3kW level sensor with boost control

Developing your business, by design.

3Minds actively pursues design solutions that reduce costs and time consuming operations for their customers. We strive to combine this with increased functionality and consumer benefits where possible. We offer electronics, industrial and mechanical design services. For further information or for your free quotation please call today on 01922 626321 or fill in our online enquiry form at www.3minds.co.uk

Level sensors with optional boost control

Model / Specification	LS3	LS3 Plus	LS4	LS4 Plus
Features				
Boost function : duration 30, 60, 120min & continuous	_	•	-	•
Boost memory for continuous mode after power off	_	•	-	•
Independent control power supply	_	_	•	•
Low power thermostat connection	_	-	•	•
Electrical				
Load rating	3kW	3kW	4kW	4kW
Load supply: 230VAC 50Hz	16A	16A	32A	32A
Physical				
Overall dimensions : W x H (inc. cable glands) x D in mm	94 x 120 x 57	94 x 120 x 57	180 x 120 x 57	180 x 120 x 57
Weight : grams (g)	250	275	425	450

General specification

Purpose of control: Sensing Classification: Type 1.B Contacts: Micro-disconnection Rated impulse voltage: 4000V

Construction: Independently surface mounting control

Mounting: Surface mounting

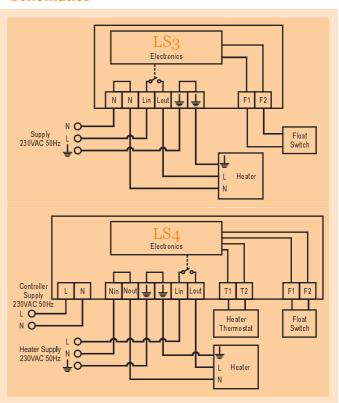
Enclosure: Flame retardant high impact polystyrene-HIPS

Shock protection: Class II Ball pressure test: 75°C Enclosure protection: IP30

Operating temperature range: 0°C to 40°C Pollution control situation: Pollution degree 2 EMC directive: (EMC) (89\336\EEC), (92\31\EEC) LV directive: (LVD) (72\23\EEC), (93\68\EEC) Product identity: Can be badged for OEM



Schematics





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IMMERSION HEATER TIMERS

IMMERSION HEATER CONTROLLERS

WATER FLOW **CONTROLLERS**