

Water leak protection

The WS1 control unit is intended to help prevent major leaks in the home due to washing machine and hot water cylinder failures. The control unit senses the presence of water and automatically shuts down the incoming supply, at the same time as going into an alarm state. An audible tone is emitted and a flashing LED activates to alert the occupants to the potential problem.

The unit performs self diagnostic routines on the water sensor, cable and internal circuitry. This indicates correct installation, prevents nuisance triggering and provides long term reliability.

In a typical application a self adhesive water sensor is fixed into a watertight tray below the appliance to be monitored.

Main features

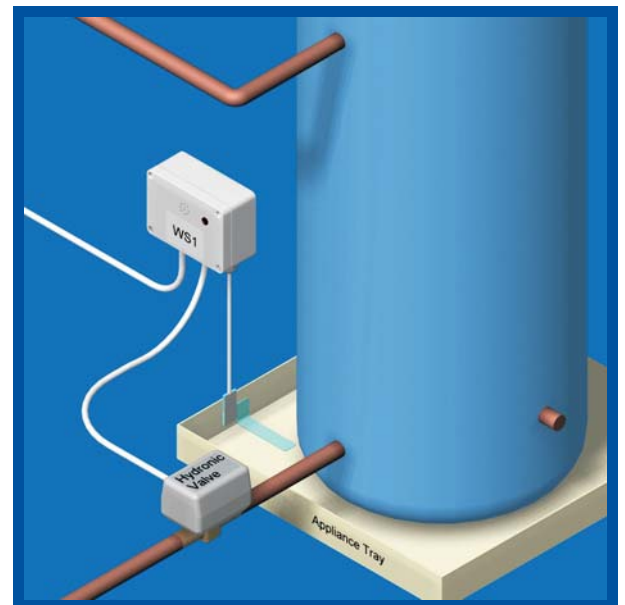
- Audible and visible alarm indication when a leak is detected
- System fault diagnostics
- The problem must be rectified to allow the system to be reset from an alarm state
- Embedded micro-controller prevents false triggering and provides digital accuracy
- Easy to install self adhesive sensor
- High audible output
- Sensor and integral 2.5m cable provided
- IP30 Ingress protected enclosure

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WS1 - Water leak monitor and auto shut off, of supply



A typical WS1 application on a hot water cylinder

Water leak monitor & shut off safety unit

Model / Specification	WS1
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Features

Alarm status LED : intermittent is idle, flashing for system fault, permanent for an alarm condition	•
Alarm buzzer : 1 hour then intermittently for an alarm condition	•
Diagnostic buzzer : intermittent chirp for system fault	•
Self diagnosis : the unit continuously monitors the water sensor, cable & internal circuitry	•

Electrical

Motorised shut off valve : 6VA 230VAC 50 Hz (Typical part : Honeywell VC series - Not supplied)	•
Control power supply	3A

Physical

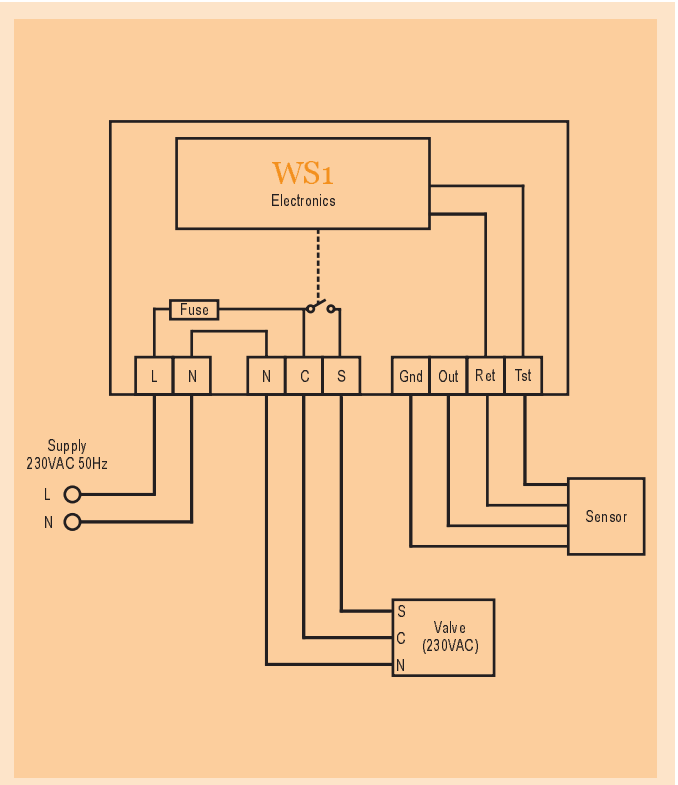
Overall dimensions : W x H (inc. cable glands) x D in mm	130 x 120 x 57
Weight : grams (g)	275

General specification

Purpose of control : Sensing
 Classification : Type 1.B
 Contacts : Micro-disconnection
 Rated impulse voltage : 2500V
 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



Schematic



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