

# The DEETER Group®



## Leak Detector



Leak Detector Controller

The Deeter Leak Detector comprises a **Leak Detector Controller** and a series of **Leak Detector Sensors** connected in a chain to the Controller via a 3-core cable. The Sensors will detect a conductive liquid (e.g. water leak) between a pair of probes on their underside. The Controller will respond to a leak detected at any one of the Sensors.



Leak Detector Sensor

The Controller provides an LED indication of wet or dry conditions and will also detect a fault, should one occur, in the sensor cable. The Controller provides three outputs (two SPDT relays and an open-collector transistor) that may be used to directly drive pumps and alarms, or may be used to interface to other equipment, such as Programmable Logic Controllers, Building Management Systems, and dial-up alarms systems.

Power to the Controller can be from a mains supply (220-240VAC) or a low-voltage supply (10-24V), either AC or DC. Power to the Sensors is provided by the 3-core linking cable.

The Controller is housed in a UL94-V0 flame retardant case that will fit on a 35mm DIN rail. All inputs and outputs are via screw terminals.

Sensors come in an IP65 ABS enclosure and are simple to connect using cable lengths to suit the installation. Screw terminals are provided for the three wires in and the three wires out to the next Sensor in the chain.

The Sensor enclosure is held off the floor by rubber feet with two M3 threaded probes extending downwards to within 1mm of the floor. The probes may be extended using the threads if required. The enclosure also has provision for bolting the Sensors to the floor.

Behind the Controller front panel is a bank of DIP switches that allow a number of user-selectable options. The switches are visible through the front panel but are only accessible with the panel removed, so cannot accidentally be changed.

All electrical equipment should be installed by a qualified electrician.

## DEETER ELECTRONICS LTD

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Options include: assigning outputs to either a leak or a fault condition; setting the relays to default to open or closed; selecting outputs to latch so that they remain in the 'wet' state after a leak has dried. A Reset button is provided for clearing latched outputs.

### Specification

|   |                    |   |   |
|---|--------------------|---|---|
| <b>Controller Dimensions</b>                    | 90mm x 71mm x 58mm | <b>Sensor Dimensions</b>                | 100mm (incl. cable glands) x 64mm x 40mm high                 |
| <b>Controller Mounting</b>                      | 35mm DIN rail      | <b>Sensor Probes</b>                    | Pair, stainless steel, M3 thread, 5mm long, 20mm spacing.     |
| <b>Mains Power Supply option</b>                | 220-240VAC @ 20mA  | <b>Low Voltage Supply options</b>       | 10-32VDC @ 200mA<br>8-24VAC @ 200mA                           |
| <b>Relay Contacts</b>                           | 6A @ 250VAC        | <b>Open-Collector Transistor Output</b> | Internally limited to 50mA.<br>Maximum pull-up voltage, 40VDC |
| <b>Maximum Number of Sensors per Controller</b> | 10 to 30           | <b>Maximum Sensor Cable Length</b>      | Typically 2000m, depending on wire resistance                 |

### Ordering Information

| Description            | Ordering Code |
|------------------------|---------------|
| Leak Detect Controller | DE012-0169    |
| Leak Sensor            | DE012-0170    |

Deeter Electronics Ltd follows a policy of continual development of its products and reserves the right to change specifications and/or features without notice.

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