



Floodline

Leak and Flood Detection Systems

Flexi-Pad

Installation and Operation Manual



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Contents

Contents	1
Introduction	3
Connecting to the Floodline Panel	3
Fixing	4
Returning Sensor to Use	4
Technical Specification	4

Thank you for selecting the Floodline Flexi-pad Sensor. This manual provides installation and operation information. Please, read before installing or operating and retain for future reference.

Introduction

The Floodline Flexi-pad Sensors have been specifically designed for laying in narrow voids (too small for point sensors) or wrapped around pipes at valves or joints where leaks are more likely to occur. The Flexi-pad sensor can be used singly or in groups with a number of sensors being connected together and acting as one zone.

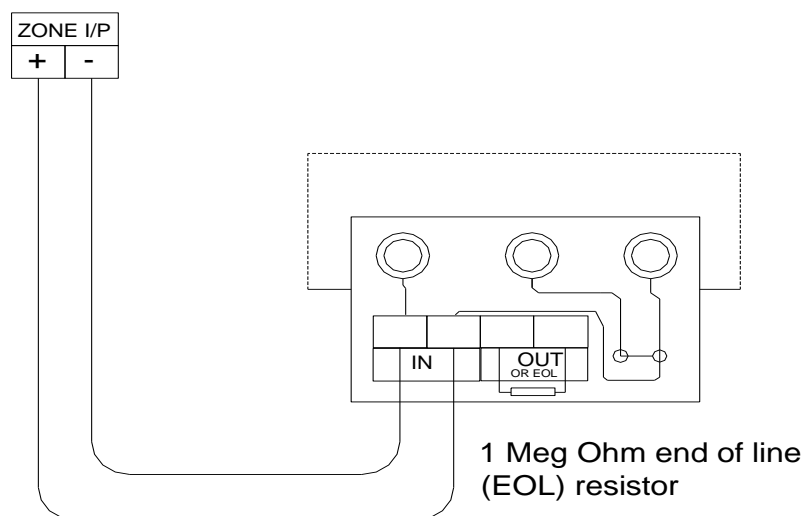
The Flexi-pad sensors are made of a tough, flexible plastic sheet 400mm x 300mm x 1mm. A removable fabric cover assists absorption and protects the sensor surface.

Connecting to the Floodline Panel

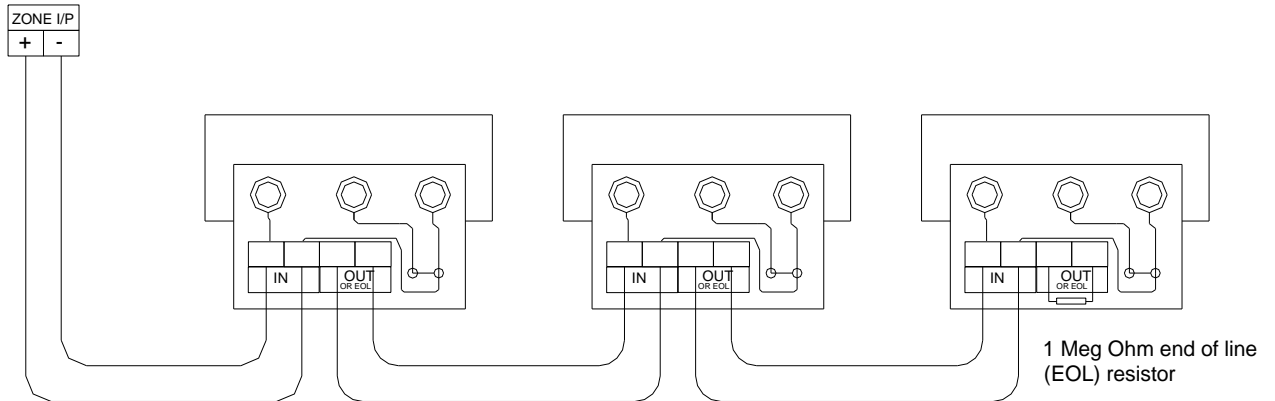
The Flexi-pad Sensors are connected to the sensor input terminals of the Floodline control panel via 2 core (minimum) leader cable. The minimum specification of the leader cable from the panel to the flexi-pad sensor is standard PVC/PVC 7/0.2mm multi-core alarm type cable or similar. LSFOH or other light cables can be substituted if required. A single Flexi-pad sensor or any number of Flexi-pad sensors connected as a “string” or “daisy-chain” can be connected to the zone/sensor input terminals. Input and output terminals are provided in each Flexi-pad sensor to allow for this purpose.

Once the Flexi-pad sensor or last sensor in a string has been connected to the leader cable the 1M Ω “sleeper” resistor, from the sensor input terminals in the control panel, should be fitted to the output terminals of the Flexi-pad sensor. The diagrams below show connection details of both a single sensor and a string of sensors.

Connections for Single Flexi-pad Sensor



Connections for a String of Flexi-pad Sensors



Fixing

The sensor can be laid on any flat surface or tie wraps can be used to loosely hold the sensor around a pipe etc.

Returning Sensor to Use

Flexi-pad sensors can be wetted and dried any number of times provided the sensor element / fabric cover is not contaminated with a substance that irrevocably changes its electrical characteristics. An example may be vending machine syrup, chemical floor treatments or paint etc. After activation the fabric cover can be replaced with a spare or removed for drying. This would allow the sensor to be returned to use quickly. The sensor can be allowed to dry naturally but this can take some time depending on the environmental conditions and the amount of wetting that occurred.

Technical Specification

Detection:

Activates when any conductive liquid makes contact with the sensor pad.

Dimensions:

Sensor: Length 400mm x width 300 mm x depth 1mm (16mm at connection point)

Fabric envelope: length 430mm x width 350mm x depth 1 mm.

Construction:

Tough flexible plastic sheet with bonded “carbon loaded” detection tracks. Complete with removable fabric cover.