

DESCRIPTION

The AquaBox was designed for dependable detection of low levels of conductive liquids. It is most commonly used under computer room floors, around pumps or inside drip pans. The Module is powered by a 24 VAC or 24-30 VDC. The relay outputs allow easy interface with any monitoring system. A green LED visible outside the box indicates power, while a red LED indicates an alarm. Red momentary switch is used as an alarm test. It shorts sensing wires, which generates alarm. The tape is 1" wide with the sensing conductors enclosed in a sturdy polymer coated mesh. The cable material acts as a water wick by pulling the water into its openings. The cable material is hydrophobic so it is not absorbing the water it is detecting. This allows for faster drying time and faster return to service after a water leak.

Multiple cables can be connected together to extend coverage area.

FEATURES

- Sturdy aluminum enclosure
- Alarm output DPDT relay (dry contact)
- Power and alarm LED's
- Alarm test switch
- Continuous tape integrity self check
- Easy troubleshooting

INSTALLATION

Remove the front panel of the device. Run wires through the back plate and make terminations. Reassemble the front panel. Plug the tape into the module and fasten the mounting screws. Use the plastic clips to mount tape to a clean and dry surface. Contact cement provides more secure installation than double face tape. Fold the tape on itself to make sharp corners. Insulate tape from conduits and ground wires. A grounded tape may cause detector failure.

OPERATION AND TROUBLESHOOTING

A green LED will indicate proper power, while a red LED is an alarm indicator. A module without power will produce an alarm. AquaBox senses an open or shorted tape. It is important to dry the sensing cable with a paper towel in the case of an alarm been caused by water. Do not allow the water to evaporate on its own. Conductive residue will be left behind which will change tape's resistance. In worst case, false alarms may occur over time. If an alarm is present and water cannot be located:

- 1) Disconnect tape.
- 2) Unplug End Of Line Resistor from the end of tape.
- 3) Plug EOL resistor into the module.

If alarm clears then replace the tape.

If alarm persists then replace the module.



SPECIFICATIONS

Power requirements	24 VAC or 24 to 30 VDC
Power Consumption	DC: 30 mA maximum AC: 35 mA maximum
Alarm output	DPDT: 1A at 24VAC/VDC
Enclosure	Extruded aluminum
Sensor Tape	1" wide and 5, 10, 15 or 25 feet long.
Dimensions	1.75" * 4.75" * 3"

WIRING

AquaBox is provided with a round opening for a 1/2" conduit or flex connector. Terminations are made to the screw terminal connectors shown below.

Both outputs of an alarm relay function identically. Contacts could be connected in parallel if the load is heavier than 1A at 24V. Do not apply voltages greater than 30V to alarm outputs.

