

INSTRUCTIONS

AQUASWITCH

**INSTALLATION OPERATION
AND MAINTENANCE GUIDE**

**BEDIENUNGS- UND
WARTUNGSANLEITUNG**

**MANUEL D'UTILISATION
ET D'ENTRETIEN**

**ISTRUZIONI D'INSTALLAZIONE
E DI MANUTENZIONE**

**MANUAL DE USO Y
MANTENIMIENTO**

HVAC/R
Service Products



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SPECIFICATION

Power Supply	90 – 254 V, 50/60 Hz 24V AC/DC
Switching capacity	5A 250VAC 1250VA
Operating Temperature	Air 0–70°C (32–158°F) Water 0–50°C (32–122°F)
Switch On/Off Level	ON: 10mm typical 6mm min., 14mm max.
Hysteresis	2mm
Delay on level fall	3 seconds as standard Marker on cable denotes any other time delay
Protection	IPX7

DESCRIPTION

The AquaSwitch is a rising water liquid level detector. Its solid state electronic sensing is not effected by oil film, metal trays, nor by slightly off the vertical mounting position. The small footprint (4 x 5 cm) and the low switching level means that the AquaSwitch may be mounted in the smallest of reservoirs. The in-built isolated relay switches loads up to 1250VA. This allows the user to select the AquaSwitch to directly switch pumps and solenoids or interface into other control circuits. The built-in Delay to off timer may be used to allow water being drained or pumped to be fully vacated or just to prevent nuisance switching.

SAFETY FIRST

Disconnect all power supplies before starting installation or maintenance work. The interconnecting conductors and connections are to be confined within the host equipment. All wiring and connections are for internal installation only. This product must be installed only by competent engineers. There are no user serviceable parts in this control. Do not use if damaged in any way. Check the label to ensure this product is the correct voltage.

INSTALLATION

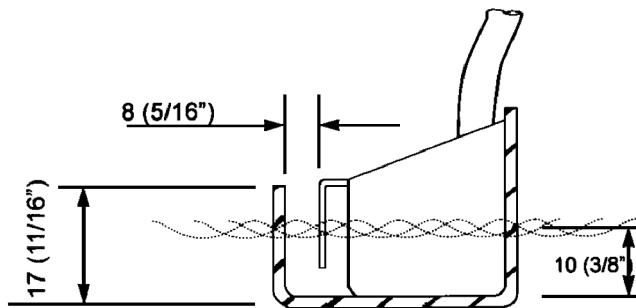
The AquaSwitch is intended to detect rising condensate water levels in A/C and Refrigeration applications. It may also be used in Reservoir Top-Up or High Level Alarm applications. The AquaSwitch is a semi-submersible switch therefore it must not be used in application where it will be permanently submerged or for long extended periods. It is not recommended to use it as a low level switch. The AquaSwitch may be used in metal or plastic collection trays. When positioning, ensure that there is 8 mm of clearance in front and 5 mm below the sensing pads. The AquaSwitch will operate tilted in any direction from the normal by up to 45° however for reliable operation position the AquaSwitch flat and level. Tray depth must be at least 17 mm to prevent overflowing.

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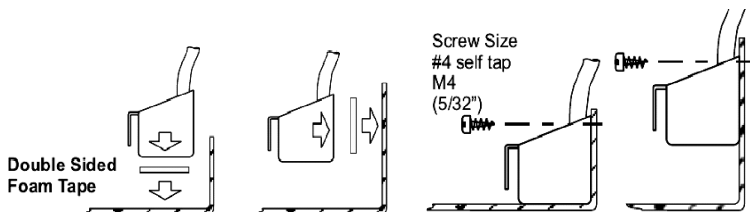
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FIXING METHODS

- 1) Use the waterproof double sided foam supplied to adhere the AquaSwitch to the side or base of the tray. Surfaces should be flat, free from grease, dust and water when fixing. Allows 24 hours for full adhesion.
- 2) Screw the AquaSwitch to the wall of the tray or suitable bracket. Do not drill or screw into the AquaSwitch in any way other than by the fixing slots provided.



ELECTRICAL CONNECTIONS

Disconnect all power supplies before starting installation or maintenance work. This control is intended for use inside the enclosure of host equipment. Wiring and connections are for internal wiring only. It is recommended to use a fuse in the circuit which supplies the AquaSwitch 3 A maximum. The Relay contacts are electrically isolated from the supply and control circuit.

Caution! Terminate spare wire end of unused relay connection.

Connections

Supply

RED
BLUE

European

L LIVE PHASE
N NEUTRAL

USA

L1 PHASE 1
L2 PHASE 2

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