

AquaSwitch



ELECTRONIC WATER SWITCH FOR VALVES, PUMPS & ALARMS



For all applications where a reliable switch is needed to control or indicate the presence of water. The AquaSwitch has no moving parts and is not affected by oil or dirt on the surface. Switching Capacity is 250V 5 Amps (max.)

The AquaSwitch is easy to fit to water trays and tanks, using the two fixing slots for screws, or by sealing it to the bottom of the tray by the double-sided tape fitted to the base. The 5 way cable contains the power supply wires and the connections to the internal isolated changeover relay, which is normally closed, and opens when water is detected by the sensitive electronic field surrounding its sensor pads.
(This is the 'fail-safe' mode when used as an alarm switch).

EDC's unique AquaSensor eliminates the problems associated with float switches and conductive probes:

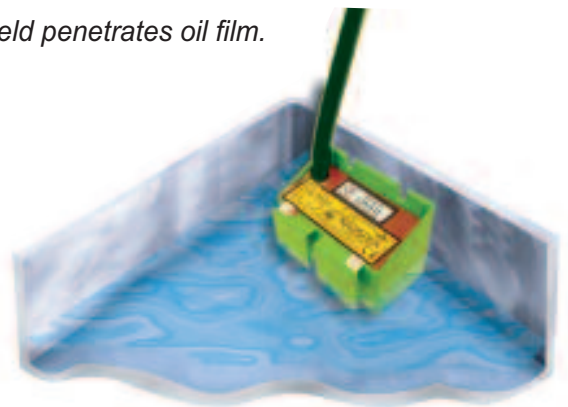
- No conductive probes to corrode or contaminate - electronic field penetrates oil film.
- No moving parts to be obstructed or seize.
- Operates reliably in metal or plastic condensate trays.

Operating Method

The AquaSwitch is a small controller with a sensitive electronic circuit encapsulated inside, which controls an isolated power relay for switching pumps or valves. Two solid-state EDC AquaSensors are fixed inside the two Detector Wings at the front of the housing to sense the water.

With power supplied to the AquaSwitch the internal relay is energised, and the yellow and black wires, connected to the normally open and common relay contacts, are joined together. When the water fills the tray to the switch-on level the sensitive electronic field surrounding its sensor pads activates the circuit to control the external components.

Total encapsulation and the use of flameproof materials classified to UL94-VO standards make this solid-state switch suitable for demanding applications.



Specification

Part Number	: AQS.0066.0	AQS.0066.1
Operating Voltage	: 95 - 254V 50/60Hz	24V ac/dc
Maximum Switched Relay Current	: 5 amps	5 amps
Relay Switch-off Delay	: 2.5 ± 0.5 seconds	2.5 ± 0.5 seconds
Ambient Temperature Range	: 0°C to +75°C (32°F to 170°F)	0°C to +75°C (32°F to 170°F)
Protection Rating	: IPX7	IPX7
Water Level for Switching Relay [depends on water quality]	: 10 ± 5mm (3/8")	10 ± 5mm (3/8")
Cable Length	: 500 mm (20")	500 mm (20")



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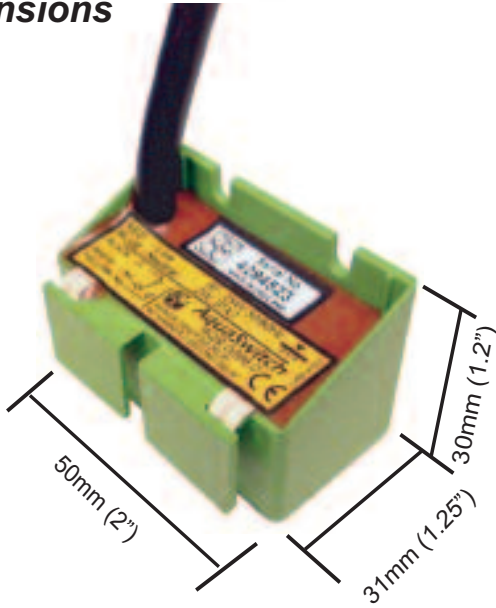
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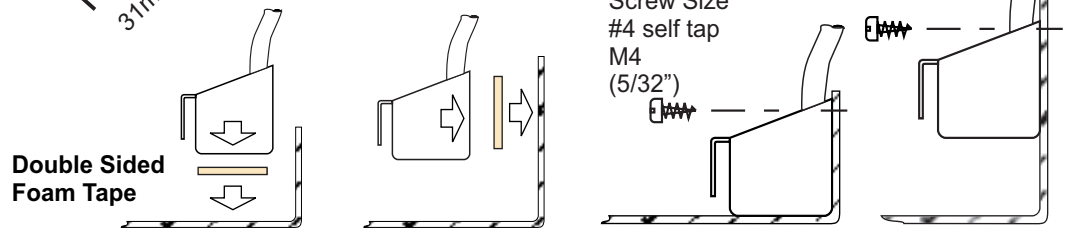


Dimensions

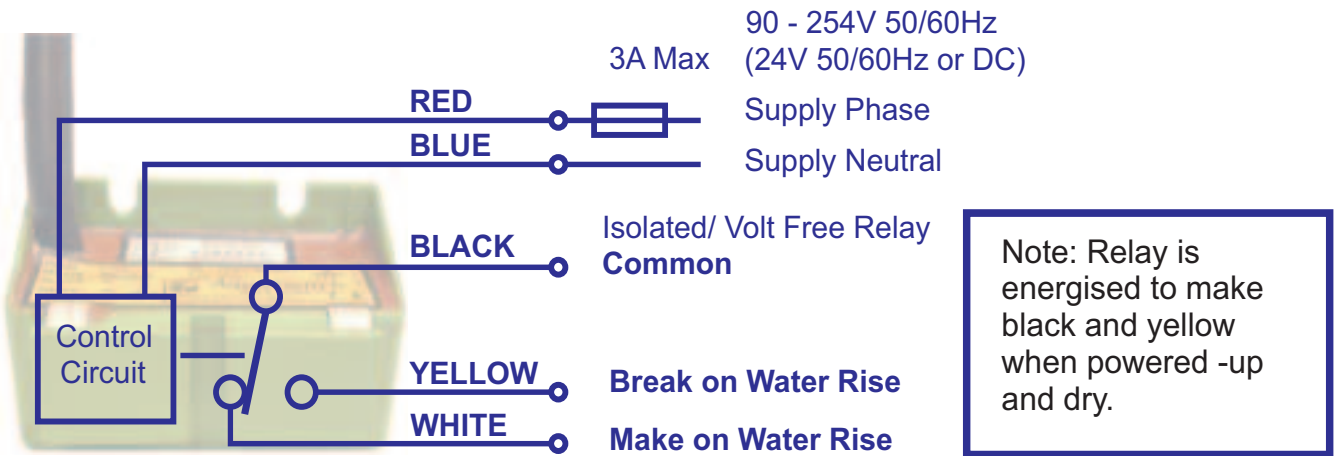


Fixing Methods

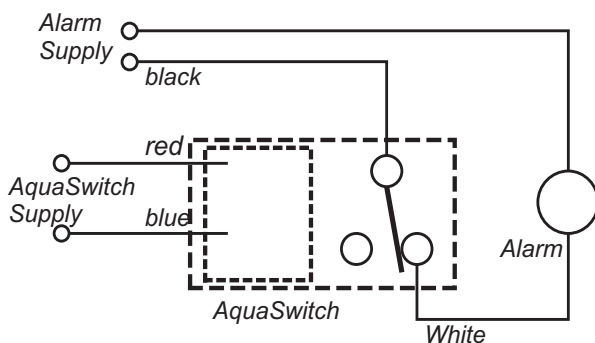
The AquaSwitch may be fixed (a) to the wall of a tank by means of screws through the fixing slots on the back, or (b) to the bottom of a tray by using the special waterproof double-sided tape supplied. If using the tape ensure that the fixing surfaces are dry and grease-free before use, peel off one piece of protective covering and stick the tape to the AquaSwitch first. Then peel off the other cover and press the AquaSwitch into position. Maximum adhesion occurs after 24 hours.



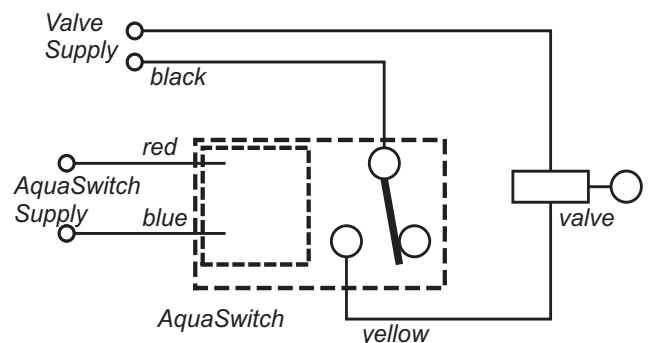
Terminal Connections



Typical Wiring Connections



Connections required to switch on alarm when water level rises



Connections required to switch on valve when water level falls