

AquaPIR

The **AquaPIR** system helps prevent water wastage from fittings, such as cisterns and taps, by shutting off the water supply when the room is unoccupied. The system, which consists of a passive infra-red (PIR) sensor and a solenoid valve, is specifically designed to comply with BREEAM WAT04 automatic sanitary shut-off requirements.



Flush mount



Surface mount

AquaPIR uses a PIR ceiling-mounted sensor to detect room occupancy and connects to a solenoid valve which opens and closes off the water supply, as required. If a room is unoccupied for a user-defined period of time, the sensor alerts the valve to shut off the supply. The system allows for delays of between 5 seconds and 12 minutes, following the last observed movement in a space, before switching off the water.

The **AquaPIR** sensors are simple fit photocells with PIR and are available as **flush mount and surface mount fittings**. Sensors have the full 360-degree detection up to a range of 7m and can be used in large areas. External programming dials enable quick adjustments of time and lux levels and are easy to configure.

The **AquaPIR** sensors can also be connected to a lighting system to switch lights on and off as room occupancy changes.

Typical applications include: Schools, hospitals, prisons, commercial units, public buildings, office buildings and leisure centres.

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Benefits

- ❖ Can prevent water wastage from sanitary fittings and reduce water consumption and water damage.
- ❖ Sensors can be used in a variety of circumstances where movement detection is a useful trigger.
- ❖ Low power consumption and maintenance costs.

Main Features

- ❖ 360 degree detection and up to 7m range.
- ❖ Off-delay adjustable from 5 secs to 12 mins.
- ❖ Easy to programme.
- ❖ Can be used in large areas.
- ❖ Also works with lighting system to switch lights on and off.

SPECIFICATION		
	Flush Mount PIR	Surface Mount PIR
Dimensions	75mm x 60mm	40mm x 90mm
Power supply	220-240V, 50Hz	220-240V, 50Hz
Mounting height	Ceiling height 2.2m or 5m	Ceiling height 2.5m
Detection angle	Up to 360° at 25°C at 5m height	Up to 360°
Distance range	10m at 2.5m fitting height	Up to 3m radius at 2.5m fitting height
Lux adjustment range	Approx. 30-200	Approx. 30-200
Time delay	10 secs - 16 mins	5 secs - 18 mins
Maximum loading	Max. 1000W incandescent lamp, 500W fluorescent 250W LED	2000W filament/incandescent or 500W fluorescent/low energy lighting
IP Rating	IP20	IP44
Operating temperature range	5°C - 25°C	-25°C - 50°C
Cable sizes	0.75mm ² - 1.5mm ² cable	3-core round flexible 1mm ² cable
Aqualeak Product Code	PIRVFM	PIR240VALT
Accreditations	CE marked	
Compliance	Low Voltage Directive 73/23/EEC	
	EMC Directive 89/336/EEC	