

Product Specification

Auto Water Shut Off Kit

Avoid costly water bills caused by leaking outlets from faulty, damaged or tampered taps and WCs with the Watersavers Auto Water Shut Off Kit.

The Auto Water Shut Off Kit works by only allowing water to flow to the washroom when occupants are detected, so any leaks and drips are limited to just when washroom users are present - greatly minimising water wastage.

A low-profile, recessed ceiling infra-red detector, in conjunction with a smart solenoid valve control the flow of water supply to the washroom.



Product Code

1/2"	AWS-15
3/4"	AWS-22
1"	AWS-28

Features

- Use to turn off water and energy when area is unoccupied
- Minimises water wastage from leaking, faulty or damaged outlets that have been subject to wear or vandalism
- Save up to 75% on water & energy costs
- Fulfils requirement 3d of the BREEAM Wat 03
- Standard 240 VAC power
- Several PIR switches spaced 5 m apart may be connected in parallel to extend area of coverage
- 12-month warranty
- Manufactured in the UK

PIR Specification

- For flush mounting in plasterboard or suspended ceiling
- 360° detection zone
- Loading: 6 amp maximum (any load)
- Time delay 10 seconds to 40 minutes
- Photocell range: 100-1000 lux and inactive
- Dimensions: 72 mm diameter x 68 mm depth
- Requires 63-64 mm (2.5") hole in ceiling & 68 mm void height

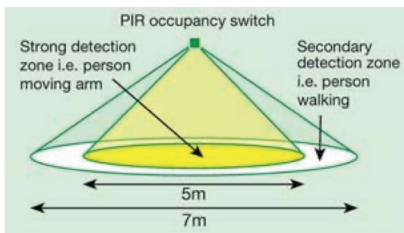
Solenoid Shut Off Valve Specification

- 2/2 NC Normally Closed (fail safe) operation
- Minimum pressure - 1/2"-1" (0.35 bar)
- Maximum pressure - 1/2" (16 bar) / 3/4"-1" (12 bar)
- Maximum temperature 90°C
- 230/240 V coil - other AC & DC coil voltage options available
- WRAS approved
- Supplied with DIN connector
- 12-month warranty

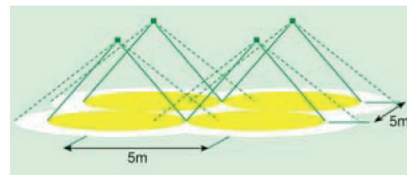
PIR Technical Specification

Detection area	360°
Time lag range	10 seconds to 40 minutes (nine steps)
Photocell range	100-1000 lux and inactive
Loading	Up to 6 amp (1500 W) of resistant, fluorescent in inductive lighting loads, or up to 1 amp (250 W) of fans
Dimensions	72 mm diameter x 68 mm

Ceiling Mounted PIR Occupancy Switch



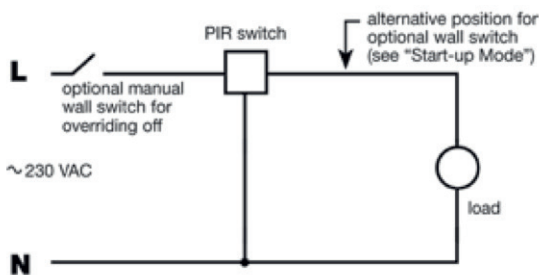
Recommended mounting height between 2.2 m and 5 m.



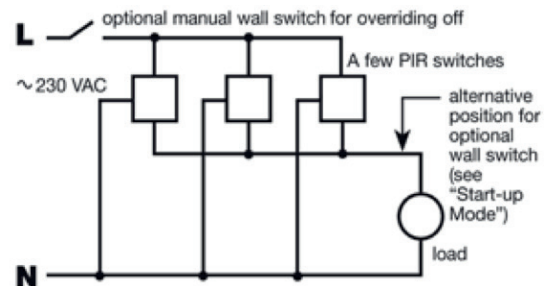
In open plan areas. For best coverage the PIR occupancy switches should be spaced every 5 m in either direction.

Wiring Diagrams Single and Multiple

Single Ceiling Mounted PIR Occupancy Switch

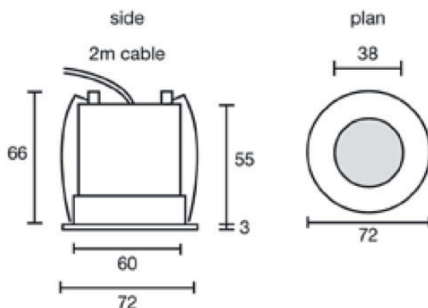


Multiple Ceiling Mounted PIR Occupancy Switches in parallel



Fitting Requirements

Requires 63 or 64 mm (2.5") diameter hole in a false or plasterboard ceiling.



Start-up

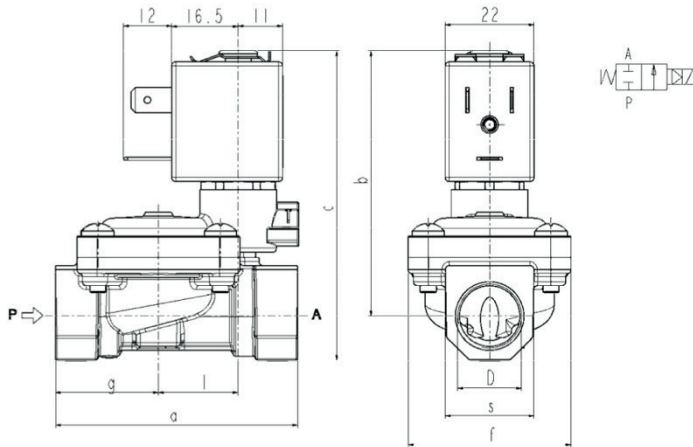
When the mains supply is connected to the PIR occupancy switch it will initiate a start-up sequence. This means it switches on for approximately one minute, switches off and activates the operating mode. If a manual wall switch is feeding the switch (see wiring diagrams) it will initiate the start-up sequence each time the wall switch is switched on. By wiring the manual wall switch in the alternative position, the supply to the switch is uninterrupted and it remains in operating mode.

 Saving more than water

Solenoid Shut Off Valve Technical Specification

General

Diaphragm valve, pilot operated, having full orifice. Suitable to shut off liquid and gaseous fluids (verify the compatibility of fluid with material in contact).



D	a	b	c	f	g	l	s
G 3/8	60	66	77	40	25,5	20	22
G 1/2	66	68	82	40	29	20	27
G 3/4	79	72,5	89	50	35,5	24,5	33
G 1	105	85	106	71	46	28	42

Technical Specification

Maximum allowable pressure (PS)	$\frac{1}{2}$ " (16 bar) $\frac{3}{4}$ " (12 bar) 1" (12 bar)
Opening time	from ~300 ms to ~1500 ms
Closing time	from ~1000 ms to ~2000 ms
Fluid temperature	-10°C +90°C (NBR) / 0°C +130°C(FPM) / -10°C +140°C (EPDM)
Maximum viscosity	5°C (~37 cStokes 0 mm ² /s)

Coil

Coils available in various voltages and specifications, please enquire for full details of range and product offerings.

 Saving more than water

Materials in Contact with Fluid

Body	Brass
Sealing	NBR or FPM or EPDM
Internal components	Brass and stainless steel
Seat	Brass
Core tube	Stainless steel
Shading coil	Copper

Port size ISO 228	Orifice size (mm)	Differential pressure (bar)				Kv (m ³ /h)	Series and type			Power absorption				Sealings	Notes	Weight (kg)	
		Δp min	Δp max				Valve	Valve with manual override	Coil	AC (VA)			DC				
			Gases		Liquids					Inrush	Holding						
			AC	DC	AC						DC	VA					VA
8/3	13,5	0,35	16	16	16	16	L182(*)01	L182(*)02	ZB10A ZB12A	12	6	4	5,5	(*) = B (NBR) (*) = V (FPM) (*) = D (EPDM)	1-3	0,32	
1/2			(12)	(12)	(12)	(12)										3,8	0,38
3/4	18		12	12	12	12										5	0,52
1	24		(10)	(10)	(10)	(10)										12	1,08

Notes:

Sealings: B(NBR)=Nitrile-butylene elastomer.

V(FPM)=Fluoro-carbon elastomer.

D(EPDM)=Ethylene-propylene elastomer (WRAS/
KTW certified compound)

- Operation with gaseous media, at high pressure without any outlet restriction, can reduce the diaphragm life.

- On request coil in class H (ZB14A – see § "COIL")

- The bracketed values of Δp max are related to valves with V(FPM) seals.

1 - Low power consumption coil on request (3,5 VA in AC – 3W in DC): Δp max = 12 bar

2 - Low power consumption coil on request (3,5 VA in AC – 3 W in DC): Δp max = 8 bar

3 - L182D01 – L182D02: WRAS certified solenoid valves (certificate n. 1411048).

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