PROXIMITY DETECTION "SHUT-OFF" VALVES



Save Water: Automatic Water Shut-Off Control
Save Water + Energy: Control both the Water Supply & Lights etc.

Can help achieve BREEAM Credits*

*BREEAM is a registered trade mark of the BRE Group and is used by permission. Robert Pearson & Company Ltd and its products are not affiliated, endorsed or certified by BRE Global or its affiliates. All rights are reserved.

The Problem: Leaking and damaged ball valves (taps etc.) are not only an expensive waste of water, but also pose a possible risk of damage from flooding.

The Solution: A PIR switch is used to control the water supply (+ lights etc.) into a room. When the PIR switch detects that the room is occupied, it will automatically turn the water supply (+ lights etc.) "ON" so the appliances work as normal.

Once the washroom has been unoccupied for a pre-set but adjustable time, the system will automatically turn the water supply (+ lights etc.) "OFF" again, thus saving water if the appliances are prone to leak, or are deliberately left on. As such it is ideal in commercial buildings with public toilets (e.g. Office Blocks, Hotel Rooms, Swimming Pools etc.) or where there is a risk of vandalism (e.g. Schools, Municipal Public Toilets, Universities, Military Barracks etc.).

This system can also be used to control special indoor water features that you only want to operate when the room is occupied (e.g. pre-swim showers for swimming pools).

Pilot Operated (HP) 230v Normally Closed Solenoid Valves

Order Codes:

1/2"	230v HP NC Solenoid Valve
3/4"	230v HP NC Solenoid Valve
1"	230v HP NC Solenoid Valve
11/4"	230v HP NC Solenoid Valve
1½″	230v HP NC Solenoid Valve
2"	230v HP NC Solenoid Valve

Rated to 10 bar water pressure

1/2", 3/4" and 1" require minimum 0.35 bar pressure differential to operate

1¼", 1½" and 2" require minimum 0.5 bar pressure differential to operate

Temperature up to 85°C

Power Absorption:

Pilot Operated HP Valves

For valve sizes 1/2", 3/4" & 1"

Inrush Holding DC 12 va 6 va 5.5W

For valve sizes 11/4", 11/2" & 2"

Inrush Holding DC 23 va 14 va 9W



- Strainers are recommended to protect the valves from debris
- Optional 12vDC or 24v please specify AC or DC available on request
- Optional manual override available. Must be specified at time of order
- Optional magnetic valve opener (to temporarily energise valves if there is currently no electricity provided on site [see page 4])

Zero-Rated "Normally Closed" LP(v2) Solenoid Valves



- We recommend you mount coils upright
- Strainers are recommended to protect the valves from debris
- Optional 12v or 24v Valve available on request please specify AC or DC
- Optional magnetic valve opener

Standard c/w 15 Watt Coil

Suitable for water pressure:

0 Bar - 7 Bar (AC Coils)0 Bar - 5 Bar (DC Coils)

Order Codes LP(v2):

½" 230v LP(v2) NC¾" 230v LP(v2) NC1" 230v LP(v2) NC

Power Absorption:

Inrush Holding 23 vA 17 vA

Optional c/w 18.5 Watt Coil Suitable for water pressure:

0 Bar – 10 Bar (AC Coils) 0 Bar – 10 Bar (DC Coils)

Order Codes LP(v2):

½" 230v LP(v2)18.5W NC
 ¾" 230v LP(v2)18.5W NC
 1" 230v LP(v2)18.5W NC

Power Absorption:

Inrush Holding 33 vA 24 vA



Direct Acting "Normally Closed" LP Solenoid Valves [1/2" – 1" sizes]

Suitable for water pressure:

0 Bar – 10 Bar (AC Coils) 0 Bar – 3 Bar (DC Coils)

Order Codes (LP):

1/2" 230v LP NC Solenoid Valve3/4" 230v LP NC Solenoid Valve

1" 230v LP NC Solenoid Valve

Power Absorption:

	Inrush	Holding	DC
1/2"	23 va	14 va	9W
3/4"	44 va	24 va	13W
1"	65 va	33 va	17W

- Strainers are recommended to protect the valves from debris
- Optional 12vDC or 24v please specify AC or DC available on request
- Optional magnetic valve opener.

Direct Acting "Normally Closed" LP Solenoid Valves [11/4" – 2" sizes]

Suitable for water pressure:

0 Bar – 7 Bar (AC Coils) 0 Bar – 5 Bar (DC Coils)

Order Codes LP(v2):

1¼" 230v LP NC Solenoid valve1½" 230v LP NC Solenoid valve2" 230v LP NC Solenoid valve

Power Absorption:

Inrush Holding DC 18.7 vA 15.3 vA 18.5W

- Strainers are recommended to protect the valves from debris
- Optional 12vDC or 24v please specify AC or DC available on request
- Optional magnetic valve opener.

PIR Switches

230v Standard (optional 24v on request) Indoor PIR Switches featuring:

Adjustable overrun time from 10 secs – 40 mins. This is the time the load will stay on for after the last time the PIR detects someone.

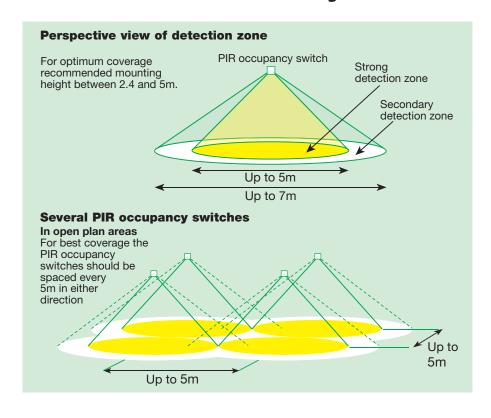
Adjustable Photocell to inhibit the lights from switching on when somebody is detected by the PIR if there is enough ambient light. Range 100 – 1000 Lux and inactive.

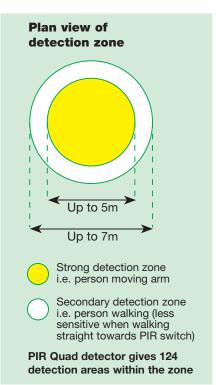
NB: Photocell MUST be set to maximum/inactive when using PIR to switch valves / motor load.

Loading: All models can switch up to 6 amps (1500W at 230VAC) of resistive and fluorescent lighting loads or up to 3amps (750W) of electronic and wire wound transformer loads, or up to 2amps (500W) of CFL, 2D Lamps LED Drivers and LED Lamps and fittings or up to 1 amp (250W) of valve, fan or motor loads.

Single PIR can control several valves, or several PIRs can be wired in parallel to control the same load.

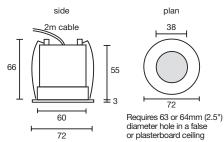
Ceiling PIR Switches





Ceiling Recessed PIR Switch



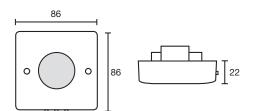


Order Codes:
PIR/D/REC
72mm diameter
PIR/D/REC/Sealed

IP44 rated ceiling recessed PIR Available on request.

Ceiling Mounted PIR Switch

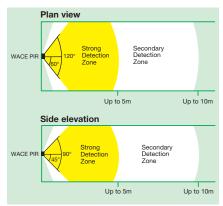


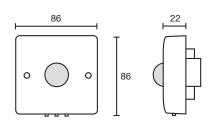


Order Code: PIR/D/SM 86mm × 86mm

Wall Mounted PIR Switch







Order Code: PIR/D/WM 86mm × 86mm

Magnetic Valve Openers



To operate MVO, remove coil to access valve-stem

Operation: Ensure that power is switched off before removing the electrically operated valve coil. Place the Solenoid Valve Operating Magnet fully over the valve-stem. You will hear a click - this indicates the valve is now open.

When the manual operation is complete, remove the Solenoid Valve Operating Magnet and reinstate the electrically operated valve coil normally.

WARNING: Do Not re-energize the electrically operated valve coil unless it is correctly seated on the valve stem.

Order Code	Suitable for:	Order Code	Suitable for:	Order Code	Suitable for:	
MVO/10mm	½" – 1" NCHP	MVO/15mm	11⁄4" – 2" NCHP	MVO/18mm	1" – 2" NCLP/NCLP(v2)	
			1/2" - 3/4" NCLP/NCLP(v2)			



ROBERT PEARSON & COMPANY LTD

Post Office House, Post Office Lane Stockton, Warminster Wiltshire BA12 OSE

Telephone: (01985) 850954 Facsimile: (01985) 850112 E-Mail: sales@robertpearson.co.uk Website: www.robertpearson.co.uk