

Step 9 : Powering Up

On initial powering up of the unit, the sensor requires a 2.5 min stabilization period at the end of which the unit will then calibrate to its surroundings and will then be ready to detect.

Please note: Whilst the unit is stabilizing and calibrating you must stay out of the detection zone, as this could have an impact on sensor performance.

Once the unit is calibrated it is ready for use.

Warranty & Support

Warranty

The Pearl Solo Individual Control is guaranteed for 5 years from purchase against defective material and assembly.

Support

For technical support please visit our technical pages on our website at www.dartvalley.co.uk or contact us:

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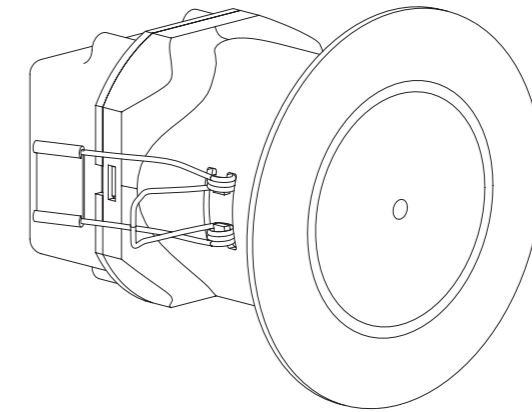
Notes :



Pearl Solo Individual Control

Installation instructions

UC01-027



Step 1 : Safety first

It is recommended that the installation be carried out and checked by a qualified electrician in accordance with the latest electrical regulations.

During installation do not expose electronics to dirt, dust or damp.

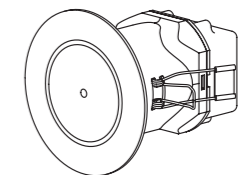
These instructions relate to the use of the Pearl Solo only, any external or 'add-on' parts will be supplied with separate instructions.

This is a sophisticated electronic device which must be installed correctly to perform correctly.

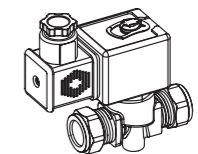
IMPORTANT : Please read these instructions carefully and follow each stage in order!



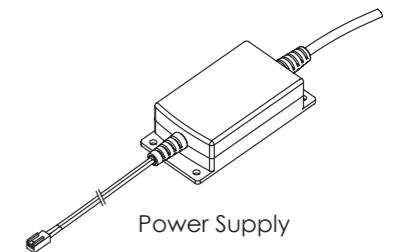
Step 2 : Parts (Supplied)



Pearl Solo



Solenoid Valve



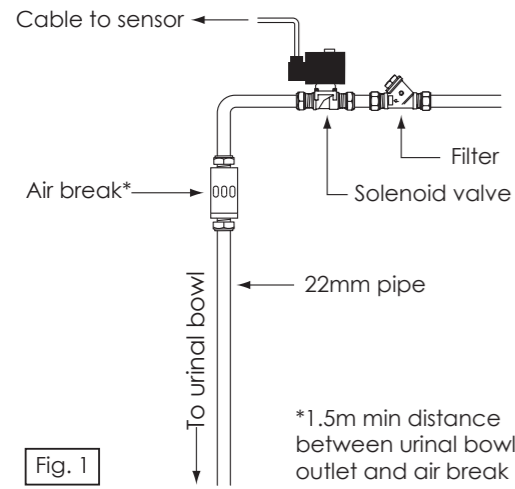
Power Supply

Step 3 : Plumbing

Turn off the local water supply. Cut the supply pipe and purge any debris or swarf.
Fit the solenoid valve ensuring joints are tightened and checked for leaks.

In the event of very low or high water pressure the manufacturer can offer alternative solenoid valves under special request.

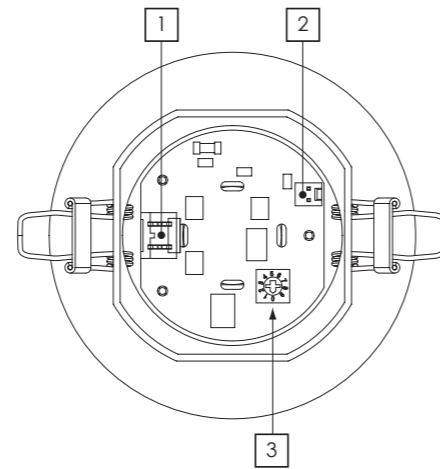
It is highly recommended that a water filter be fitted prior to the solenoid valve to ensure reliable operation.



Step 4 : Board Layout

It is recommended that you familiarise yourself with the board layout before continuing (Fig 2).

All settings will need to be made before the Pearl Solo is installed in the ceiling.



- 1 Solenoid Valve Input
- 2 Power Input
- 3 Rotary Switch (0-9)

Step 5 : Settings and Timings

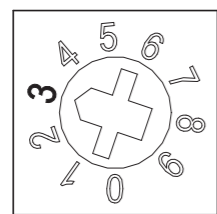
The Pearl Solo will only accept someone as a user if they stand under the beam for 5 seconds or more. When the user walks away there is a 3 second delay before the controller flushes for the desired time.

Default Flush Time

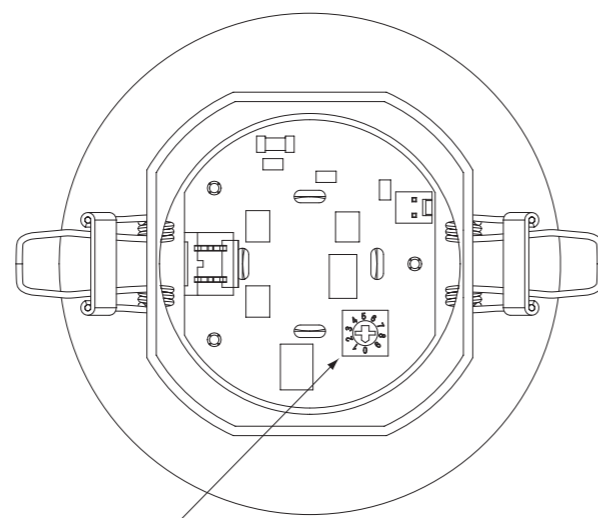
The default flush time is 3 seconds but can be altered by the installer using the rotary switch mounted on the board (Fig 3).

The rotary switch on the board is marked 0-9. Positions 1-9 are flush times in seconds.

Position 0 is for testing purposes only and must not be used.



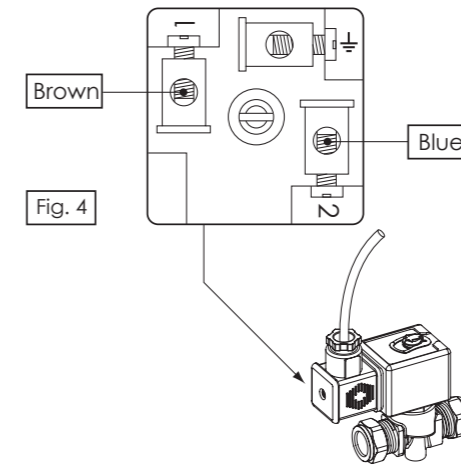
Default 3 seconds flush



Step 6 : Wiring

Valve Input

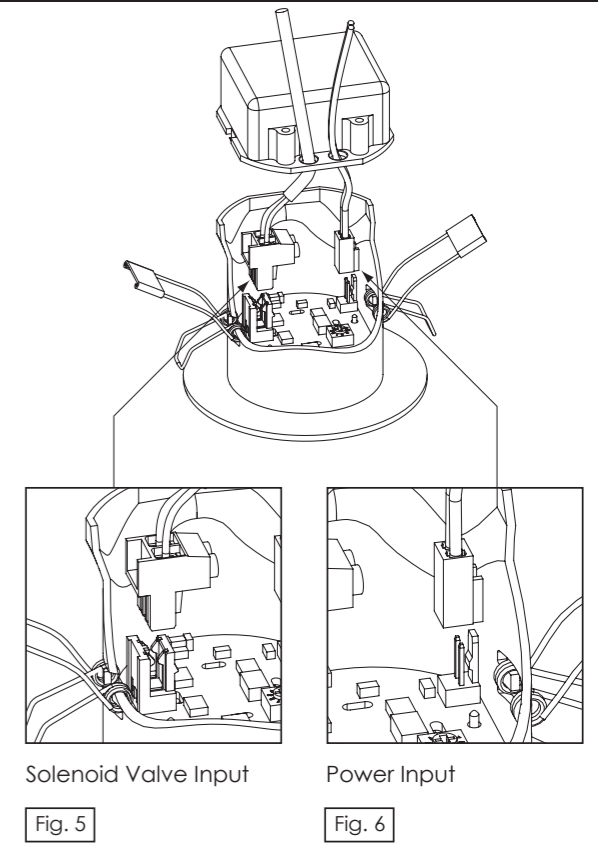
Trim the valve cable to length and prepare both ends. Fit the valve plug (Fig 4) to one end and the Pearl PCB plug (Fig 5) to the other end.



Power Input

The power supply required for the sensor is 6v DC and great care must be taken to connect it in polarity (Fig 6).

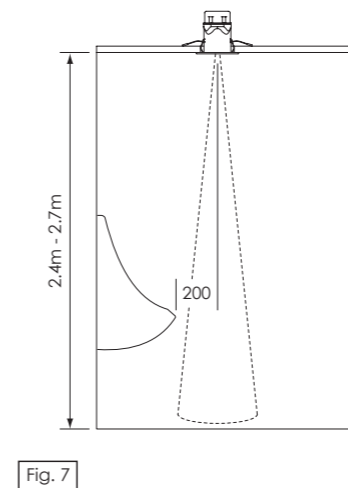
Ensure the cable is housed safely within the sensor enclosure.



Step 7 : Sensor Positioning

The Pearl Solo has a very narrow sensing area and must be installed correctly to function correctly.

Measure 200mm from the edge of the urinal bowl, this will give the centre point for the correct ceiling mounting position of the Pearl Solo (Fig 7).



Step 8 : Mounting the Sensor

Drill or cut a 2 1/2" (64mm) diameter hole in the ceiling material. Ensure solenoid and power cables are connected and passed through the Pearl Solo lid.

Push the sensor up into the ceiling whilst holding the 'A' arms in (Fig 8).

The 'B' arms will automatically click into position when the 'A' arms are pushed down on the upper/inner side of the ceiling (Fig 9).

