

## Senselec® Infra Red Wall Mounted Basin Controls

### Working parameters and specifications

#### Solenoid valve

Minimum operating pressure: 0.5 bar

Maximum operating pressure: 5 bar

Maximum water temperature: 70°C

Flow regulator: 6 lpm

#### Integrated washhands sensor

Power supply: 6 volts/1300mAh

Consumption: 28µA (typical)-40µA (max)

Adjustable range: 50mm to 250mm

Factory setting: 120mm

Detection angle: 8°

Convenience delay: 2 secs

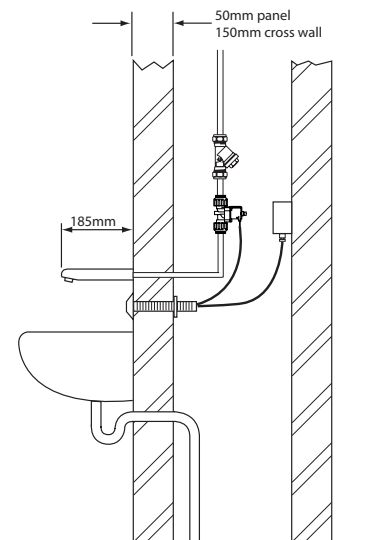
Security delay: 30 secs

Valve pulse time: 20ms

Length of the supply wire: 800mm

Length of the solenoid wire: 800mm

### Installation



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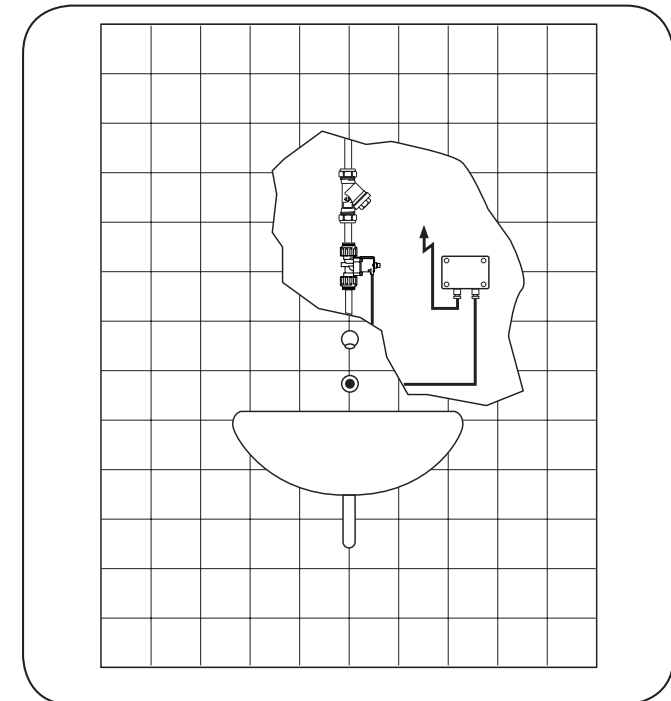
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## Installation and Maintenance Guide



## Senselec® IR Wall Mounted Basin Controls



## Senselec® IR Wall Mounted Basin Controls

### General Function

A range of wall and panel mounted basin controls suitable for use in environments such as hospitals, nursing homes, leisure centres etc. where water control and hygiene are of prime concern, the controls are available in panel mount (short threaded brass piece-50mm) or cross wall (long threaded brass piece-180mm) configurations and come complete with wall sensor module with 800mm of cable for connection to the solenoid valve and power supply (both supplied) as well as the wall mounted basin spout itself, also available in panel mount or cross wall configurations.

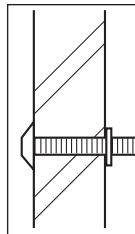
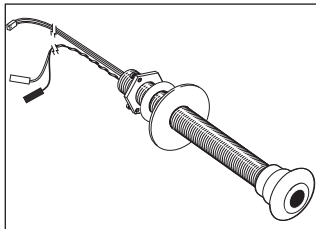
The infra red sensor fitted in the custom designed switch module gets its energy from the power supply pack (either lithium battery or mains/transformer to 6 volt). The sensor sends a microsecond long pulse to the solenoid valve when a presence is detected in the sensors field. Once the presence is no longer detected for 2 secs the solenoid valve will close. The solenoid valve is magnetically latching so only uses very small amounts of energy each time to open and close. The Senselec IR wall mounted basin controls are fabricated from solid brass which is nickel plated to a high standard, the sensors are pre-programmed and the detection field is site adjustable.

### Installation

#### Infra-red Sensor

The infra red sensors come in two sizes, 180mm long threaded tube to go through a 150mm block wall (called a cross wall installation), and

50mm long threaded tube for panel mounting installations, in both cases the installation and the electrical connections are the same. First drill a 34mm hole through the wall or panel where the sensor is to be mounted, refer to the drawing below for the recommended position. Feed the cables carefully through the hole and push the sensor home, tighten up the backnut from the other side of the wall or panel.

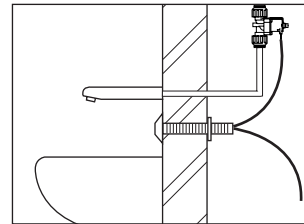


#### Basin Spout

First drill a 34mm hole through the wall or panel where the spout is to be mounted, refer to the drawing below for the recommended position, ensure the o ring seal is in place and then tighten up the backnut from the other side of the wall or panel.

#### Solenoid Valve

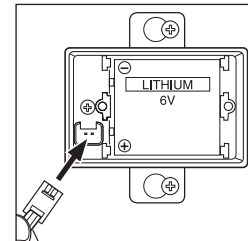
Install the 15mm pushfit type solenoid valve onto the pipework and connect the outlet of the solenoid valve to the inlet of the wall mounted spout. Next connect the solenoid wires from the sensor to the solenoid valve taking care that the orientation of the wires (+ and -) are correct. The red cable from the sensor is connected to the + terminal on the solenoid valve and the black cable is connected to the - terminal on the solenoid valve Note: the sensor and solenoid valve must not be installed more than 800mm away from the power supply box



#### Power Supply

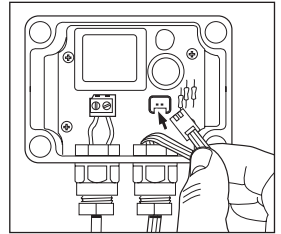
##### Battery connection

1. Using suitable fixings fix the battery box to the wall using the two plastic "ears" on the side of the box. Remove the 2 cover plate securing screws, and lift off the cover.
2. Install the battery into the seat, taking care to ensure that the polarity marked at the bottom of the box is correct.
3. Insert the power plug into the contact socket and position the wire into the notch in the side of the plastic box.
4. Replace the cover and secure the screws.



230Vac / 6Vdc Stabilised power supply

1. Using suitable fixings attach the power supply box to the wall to the wall.
2. Install the connector from the sensor to the output socket (as illustrated)
3. Connect the mains cable to an appropriate switched spur fitting
4. Replace the cover and secure the screws.
5. Turn the power supply on to the transformer



This mains powered stabilised power supply should only be installed by an approved and fully qualified electrician. The installation must conform to all local and national by-laws.

### Commissioning

Once the battery or stabilised supply is connected and the water and power connections are made live to the flush valve, the unit requires no special commissioning unless the user desires that the sensing range be increased or decreased.

The sensor unit comes factory pre-set at a range of 120mm, which is suitable for most applications, to adjust the range adopt the following procedure. Note: sensing distance is 50-250mm

1. Disconnect the battery or stabilised power supply
2. Wait for 5 secs and then re-connect the battery or power supply.
3. Put your hand at a distance <5cm while the red light is blinking
4. A red LED will now come on, put your hand at the required distance
5. When the LED goes off remove your hand
6. When the LED is off the required distance is programmed into the memory

Important : To ensure that the adjustment does not alter during battery changes, do not put anything in front of the detection zone while the LED is blinking.