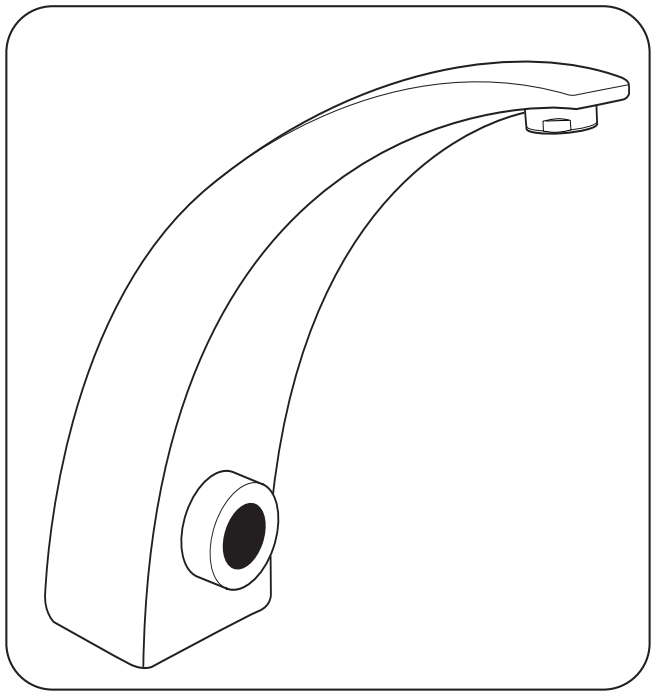
installation & maintenance guides

Senselec® IR Swanneck Tap

General Function

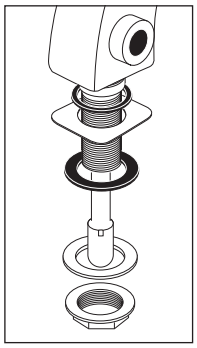
The Senselec® IR Swanneck Tap is totally hands free in operation which makes it ideal for use in environments like hospitals and nursing homes where infection from cross contamination can be a serious problem. All of the functions of the Senselec® IR Swanneck Tap are factory programmed into a small computer chip which is incorporated into the infra red sensor. The run time is set so that when the sensor "sees" a presence a solenoid valve is activated and water begins to run from the spout. Water will continue to run as long as the sensor "sees" a presence, however after 30 secs of continuous running the tap will automatically shut off and will not begin running again until whatever is activating the sensor is removed, after this the tap returns to normal operation (this feature is provided to prevent vandalism i.e. blocking the sensor with some object). When in use the tap also has a delayed shut off of 2 secs, so that if the user's hands move briefly away from the sensor the tap does not continually turn on and off.



A uniquely styled active infra red actuated basin tap.

Installation

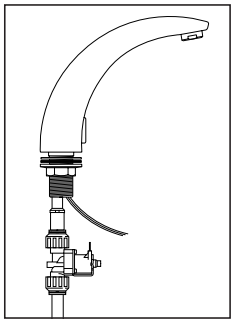
Flush the installation thoroughly and install a y type strainer to prevent system contamination from damaging the solenoid valve.

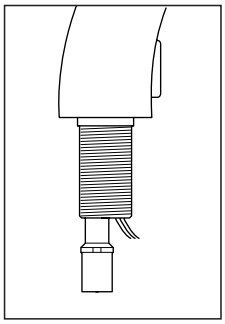


1. With the round sealing ring and square sealing ring in place carefully feed the connection cables through the chosen hole in the basin or counter top. Once the tap is in place fit the plastic washer over the 3/4" threads and then spin the backnut into position and tighten until the tap is securely fixed. Extreme care must be taken not to pinch, crimp, cut or otherwise damage the connection cables.
2. Connect the water supply using the push fit solenoid and push fit flexible hose provided. Pressure test the installation.

Option 1

Fit the solenoid valve directly onto the 15mm brass spigot which protrudes from the bottom of the tap, ensuring that the direction of flow is correct. Insert the brass spigot end of the flexible hose onto the solenoid valve and attach the push fit end of the flexible hose onto the 15mm supply pipework.



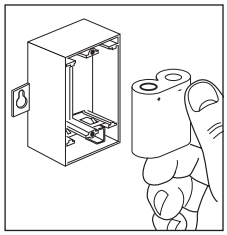


Option 2

Fit the push fit end of the flexible hose onto the 15mm brass spigot which protrudes from the bottom of the tap. Insert the brass spigot end of the flexible hose onto the solenoid valve and attach the other end of the solenoid valve to the 15mm pipework ensuring that the direction of flow is correct

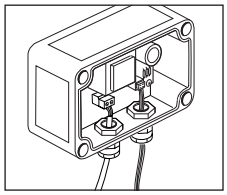
3. Connect the power supply as follows:

Battery Power



Fit the battery box to a firm sound surface in an area where it will not be subject to flooding, using the screw holes provided. Connect the grey power cable to the battery box and install the 6 volt lithium battery, connect the cables to the solenoid valve, red to positive (+) black to negative (-).

Mains power version



Fit the mains powered transformer as per the battery powered version and install the control cables to the terminals in the same manner. Connect the mains supply to the transformer taking care to fit the cables to the terminals in the correct manner i.e. red or brown to positive (+) black or blue to negative (–) and green and yellow to earth.

It is strongly recommended that the connections to the mains be carried out by an approved electrician and that isolation in the form of a fused or switched spur should be provided. *Wiring must conform to all local codes and byelaws.*

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4. Turn the water supply on to the solenoid valve, when the infra red beam is broken the tap should now begin to run. When the object is removed, and the beam is restored the water will shut off (after a 2 second delay).

Set Up

The range can be adjusted as follows:

1. Switch the device off and remove battery. Disconnect the sensor from the battery holder.
2. Wait for a few seconds and switch on the device replacing the battery.
3. Put your hand at a distance of less than 5cm while the red light is blinking.
4. A red LED will now come ON, put your hand at the desired distance.
5. Wait until the red LED goes off, then remove your hand.
6. The set range is now programmed in the memory.

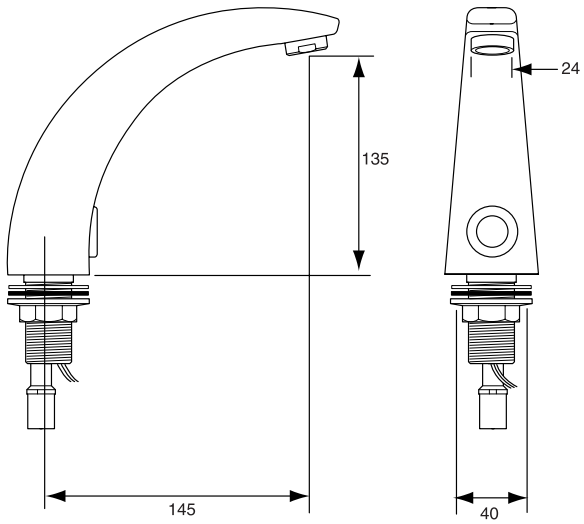
After the battery change, the red LED is blinking. Avoid putting any object at a distance of less than 5cm to keep the previous setting. The standard range is 120mm.

NOTE: The digital processing of the signal ensures an accuracy range of +/-20%.

Working parameters and specifications

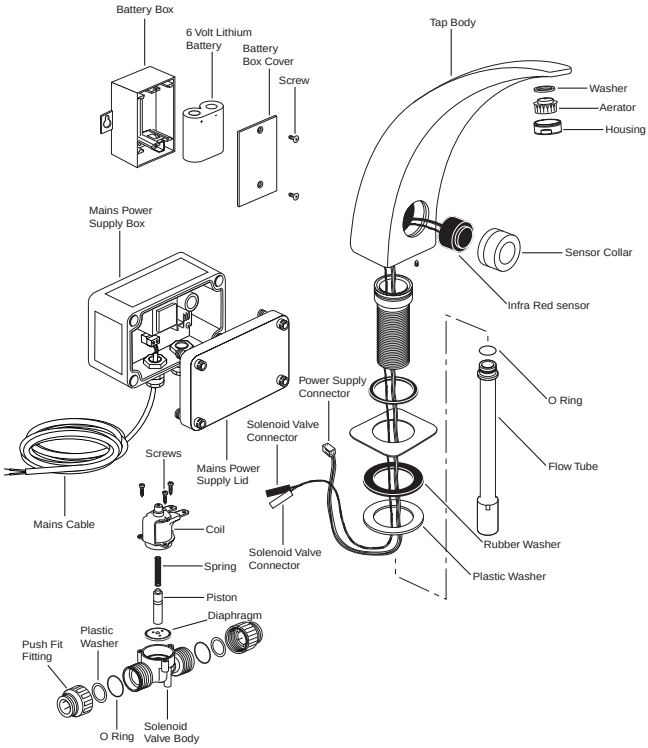
Maximum pressure	5 bar
Minimum pressure	0.5 bar
Maximum temperature	70ºC
Minimum temperature	5ºC
Flow regulation	6 lpm
Battery power	6 volts (300,000 operations, 3-4 years)

Dimensions



All dimensions in mm unless stated

Exploded Diagram



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