



Dudley Resan IR Basin Controls Fitting Instructions

Single & Dual Sensor Installations

Important – Please read these instructions carefully before installation.

Disclaimer

1. The specifications of this product can change without notice as a result of continual product development.
2. These instructions are intended to be a general guide only as specific conditions vary from installation to installation.
3. The images in these instructions are for illustrative purposes only and may vary slightly from the actual product as a result of continual product development.
4. Check the product for defects or damage prior to fitting. Fitting the product is an acceptance that the product is free from defects and Thomas Dudley Limited cannot retrospectively accept responsibility for any defects subsequently discovered.

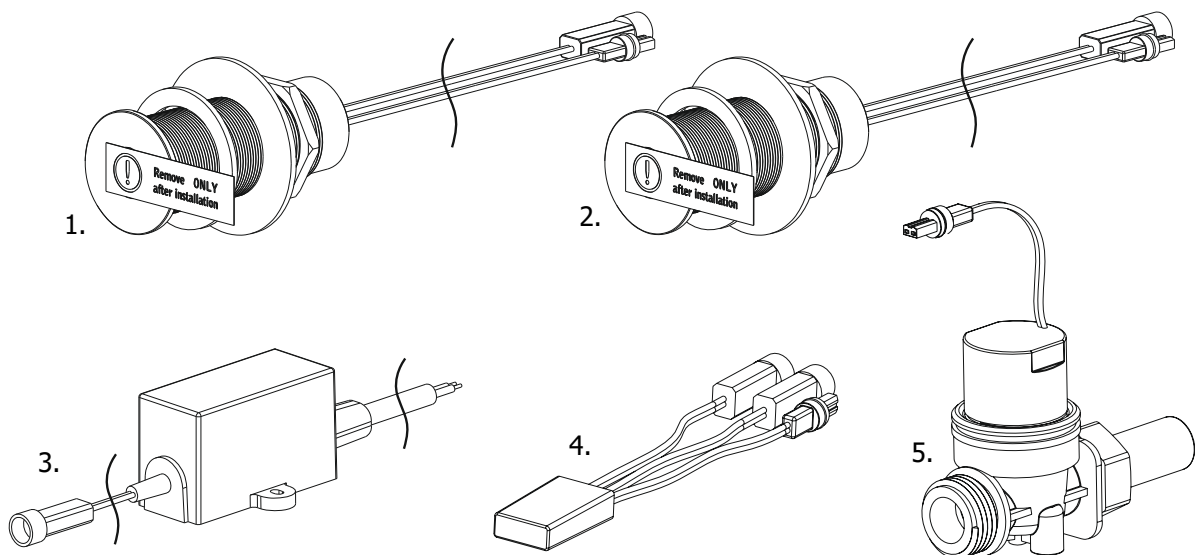
Warning – Installation of the transformer must be carried out and inspected by a qualified electrician. During installation do not expose the electronics to fluids, dust, dirt or damp.

Important Note – This sensor kit is for IPS panels only, an extension piece is required for installation surfaces of greater thickness.

Component Checklist

1. Hot (Red) water sensor (single sensor version)
2. Cold (Blue) water sensor*
3. 9v mains transformer
4. 2-way splitter*
5. Solenoid assembly*

*In a single sensor version only 1x sensor and solenoid is supplied and no splitter is required.

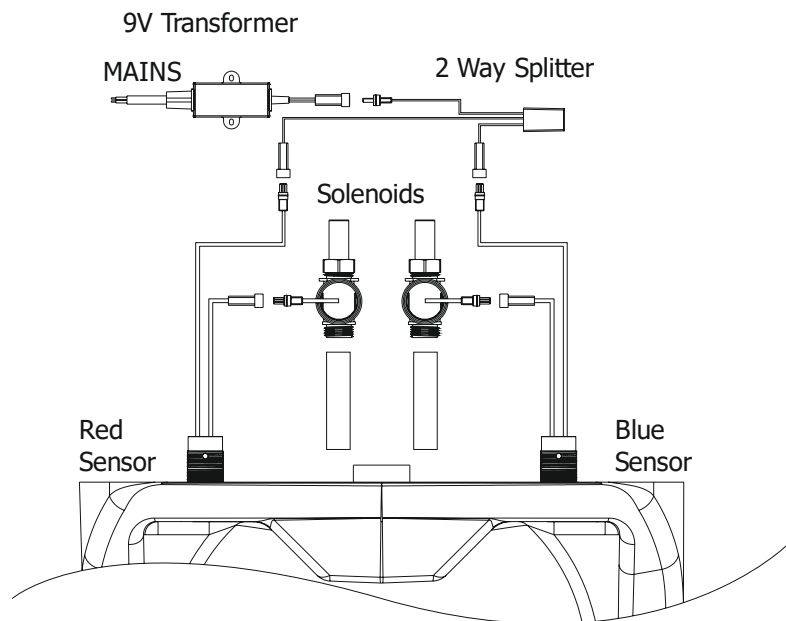
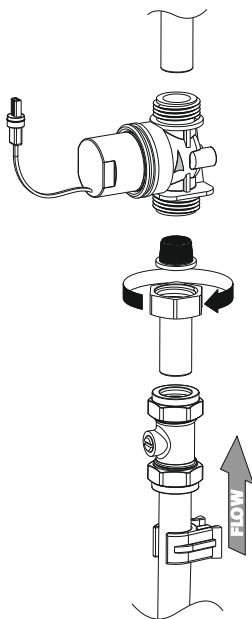
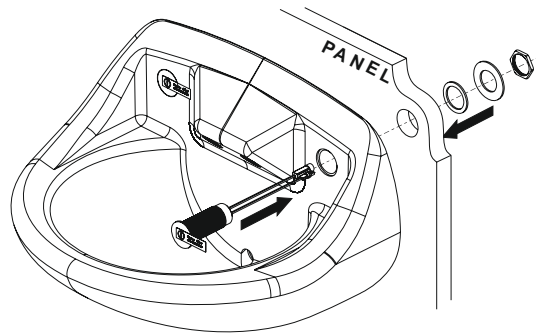


Preparation

1. Ensure that the required fixing and clearance holes have been made in the panel/wall prior to fitting the sensors (basin installation instructions and drilling template included with basin).
2. Always turn off the water supply from the nearest isolation valve(s) before connecting to avoid any leaks.
3. Ensure power is isolated correctly before carrying out electrical work.

Installation

1. Remove the back nut, metal washer & rubber washer from the sensor(s).
2. Ensure that the O-ring is retained in position on the sensor.
3. Insert the brass tail of the sensor through the sensor aperture within the basin and IPS panel (an extension piece should be used for thicker installation surfaces). Ensure the O-ring remains seated in the sensor body groove.
4. Place the rubber washer, metal washer and back nut over the sensor cables and tighten the back nut to the brass tail accordingly.
5. Connect the solenoids to the hot and cold inlet pipes ensuring the filter is in place and the flow direction is in the correct orientation. Connect the solenoids to the basin tap(s) using an appropriate connection.
6. Connect the sensor cables using the wiring diagram below. Ensure cables are fully inserted into connectors.
7. Turn on the water supply.
8. Remove the protective sticker from the sensors and turn on mains power.
9. Test each sensor by waving within default detection range (10cm) to activate water flow. If necessary, flow can be stopped with a second wave before the set flow time is reached.



Configuration

Factory Default Configuration

The sensors are factory set to the default configuration shown below.

	Default Setting	Adjustment Range	+/- Increment
Flow Time	8.5 sec	0.7 – 120 sec	0.5 sec
Detection Range	20cm	4cm to 25cm	1cm
Security Lockout	1 (No Lock-out)	4 modes available	n/a

Adjustment & Custom Configuration

For custom configuration of the sensor programming, a remote control is required (not supplied). This can be purchased separately if required (Product Code: **PRESEB370996**).

Note – If the basin has both hot and cold sensors, each sensor will need to be programmed separately using the remote control, configuration can differ between sensors if required.

Use the remote control to adjust the each function as instructed below.

Activate the tap and during flow, place the remote control closely in front of the sensor, this will stop flow. The desired function can now be selected.



Flow Time

1. Press the Flow Time button and wait for the LED to flash rapidly to indicate adjustment mode is active.
2. Use +/- buttons to increase or decrease the flow time in 0.5sec increments. The LED rapid flashing will pause to acknowledge each press of the +/- button, allow the LED to begin flashing again before the next +/- button press.

Note: When the Max. or Min. value is reached, the rapid flashing will be replaced with a long single flash.

3. Once the desired flow time is achieved, wait for the LED to stop flashing. The new flow time is now set and normal operation mode active.



Detection Range

1. Press the Detection Range button and wait for the LED to flash rapidly to indicate adjustment mode is active.
2. Use +/- buttons to increase or decrease the Detection Range in 1cm increments. The LED rapid flashing will pause to acknowledge each press of the +/- button, allow the LED to begin flashing again before the next +/- button press.

Note: When the Max. or Min. value is reached, the rapid flashing will be replaced with a long single flash.

3. Once the desired detection range is achieved, wait for the LED to stop flashing. The new detection range is now set and normal operation mode active.



Security Lockout

Prevents misuse of the tap by offering 4 lockout levels. Each press of the SEC button will cycle numerically through these 4 lockout levels i.e. 1, 2, 3, 4, 1, 2, 3, 4.... etc.

1. Press the SEC button and **wait 3 seconds**, the LED will flash ONCE, TWICE, THREE or FOUR times to indicate which Security Lockout level (1 to 4) is now selected.
2. After the LED has flashed to indicate the selected level, the LED will rapidly flash to indicate that the indicated Security Lockout level is being saved. Setting is saved once flashing stops.
3. Follow the above procedure until the desired Security Lockout level is selected and saved. The sensor will now return to normal operation mode.

Lockout Level 1 (Default) No lock out.

Lockout Level 2

- 1st Sensor activation in 30mins = 30min timer starts
- **4x** activations within 1st 10min period = lockout sensor for remainder of 1st 10min period.
- Sensor reactivated 10mins after 1st activation
- **4x** activations within 2nd 10min period = lockout sensor for remainder of 2nd 10min period.
- Sensor reactivated 20mins after 1st activation
- **2x** activations within 3rd 10 min period = lockout sensor for remainder 3rd 10min period.
- This program will repeat as required.

Lockout Level 3


- 1st Sensor activation in 30mins = 30min timer starts
- **2x** activations within 1st 10min period = lockout sensor for remainder of 1st 10min period.
- Sensor reactivated 10mins after 1st activation
- **2x** activations within 2nd 10min period = lockout sensor for remainder of 2nd 10min period.
- Sensor reactivated 20mins after 1st activation
- **1x** activations within 3rd 10 min period = lockout sensor for remainder 3rd 10min period.
- This program will repeat as required.

Lockout Level 4

Lockout after 2 activations within 30mins for the remainder of the 30min period.

Lockout Override

If a sensor is locked out and functionality is required, lockout can be overridden by switching off power to the sensor for 5-10 seconds. Customised configurations for detection range and flow time will be retained once power is returned.

 **Reset Button** - Restores factory default settings for Detection Range and Flow Time functions only. Press the RES button once and wait for the LED to flash. The default settings have now been restored and normal operation mode is active.

Commissioning for Use

1. Check the system for leaks.
2. Check correct operation of sensors.

Maintenance

1. It is not recommended that proprietary products be used for cleaning as the vast range of different chemical composition makes it impractical to test individually with the sensor.
2. Do not use scouring pads, abrasive cleaners, or sharp instruments.
3. Clean sensor using warm soapy water.

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