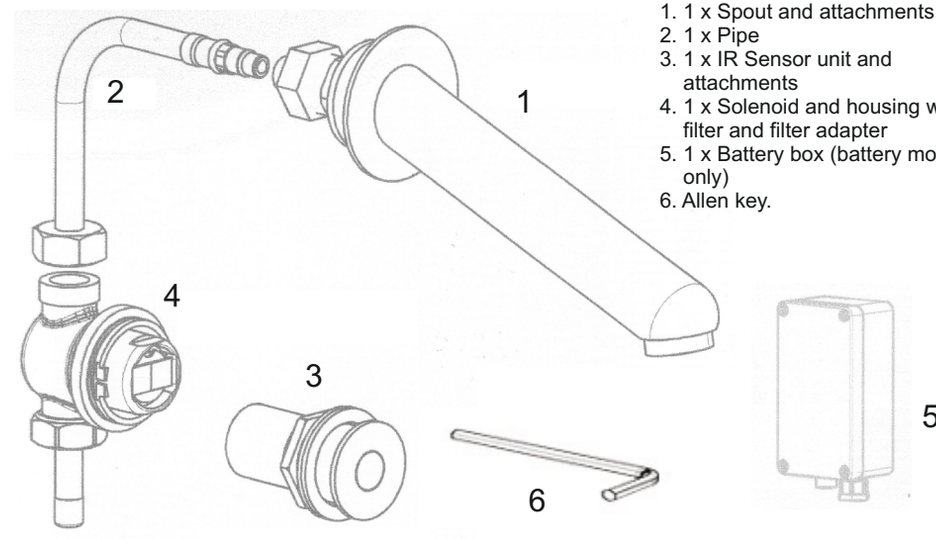
DUDLEY electroflo® taps

Models:

Electroflo Hygiene
Electroflo Hygiene B

Pack Contents



1. 1 x Spout and attachments
2. 1 x Pipe
3. 1 x IR Sensor unit and attachments
4. 1 x Solenoid and housing with filter and filter adapter
5. 1 x Battery box (battery model only)
6. Allen key.

Power supply:	6 x 1.5V AA batteries or 9V transformer
Recommended water pressure:	0.5-8.0 bar (7-116 PSI) With water pressure of more than 8 bar, use a pressure reducing valve for reduction
Sensor range:	Wave sensor
Preset sensor range:	200mm Adjustable
Minimum sensor range:	50mm
Maximum sensor range:	350mm
Flow time:	8 seconds. Adjustable with remote control

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Pre-installation Information

Check contents
Separate all parts from the packaging and check each part with the “pack contents” section.
Pay attention to the different model variations.
Make sure all parts are accounted for before discarding any packaging material.
If any parts are missing, do not attempt to install your electronic tap until you obtain the missing parts.

Warnings
Do not install the sensor facing a mirror or any other electronic system operated by an infra-red sensor.
To prevent reflection problems, it is recommended to keep a minimum distance of 1.5 metres between the sensor and any other objects.

Preparation for installation
Flush water supply lines thoroughly before installing the tap. **Do not allow dirt, PTFE tape or metal particles to enter the tap.**

Important - Plumbing must be installed in accordance with applicable codes and regulations.
Installation of the mains adaptor must be carried out and checked by a qualified electrician. During installation do not expose the electronics to fluids, dust, dirt or damp.

Tap Installation

Step 1 – Installing the tap

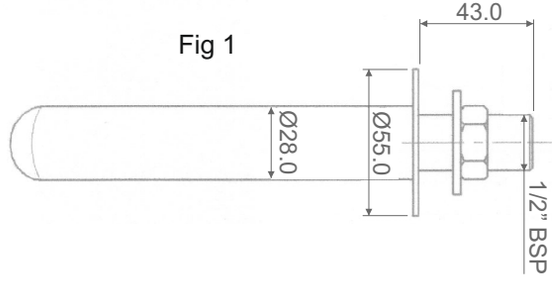
1. Drill a Ø22mm hole in the position where you want to install the spout of the tap. See FIG.1.

2. Insert the spout thread through the wall and fix behind the wall with the hexagonal nut and the washer.

3. Drill a Ø30mm hole in the position where you want to install the IR sensor unit. See FIG.2.

4. Insert the IR sensor unit through the wall or other surface where you want to place it and fix the base behind the wall with the hexagonal nut and the washer.

Fig 1



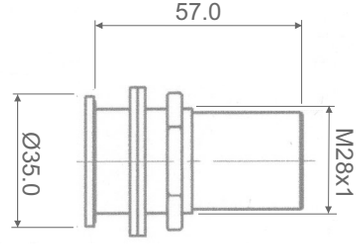
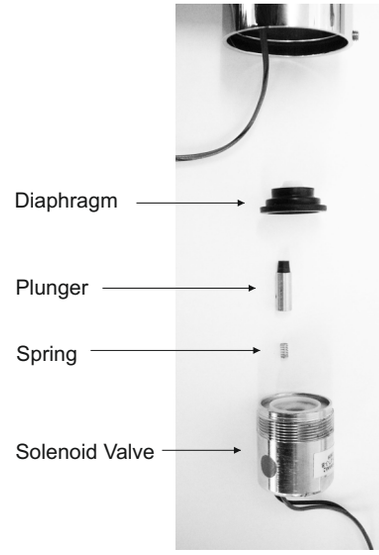


Fig 2

Trouble Shooting

No water is coming out of the tap: Check the batteries and replace if necessary.



Ensure sensor is not picking up reflections from a mirror or any other object.

Check the sensor range - If range is too short or too long, increase or decrease the range.

Check all connections and ensure power supply is correctly connected.

Check the solenoid valve. If debris or scale are present, unscrew the solenoid valve, pull out the plunger and the spring and clean them. Use scale remover if necessary. When replacing the spring, make sure that it is in the vertical position.

Check the diaphragm. If necessary, clean the orifice or replace it.

Check the water supply pressure. It must be 0.5 - 8 bar (7 - 116 PSI). For water pressures above 8 bar, use a pressure reducing valve.

Water flow does not stop: Check the diaphragm. If necessary, clean the orifice or replace it.

Check the solenoid valve. If debris or scale are present, unscrew the solenoid valve, pull out the plunger and the spring and clean them. Use scale remover if necessary. When replacing the spring, make sure that it is in the vertical position.

Ensure sensor is not picking up reflections from a mirror or any other object.

Ensure sensor is not dirty or covered.

Check the batteries and replace if necessary.

Check all connections and ensure power supply is correctly connected.

Water flow diminished: Check the filter and aerator and if necessary remove, clean and reinstall (to remove aerator unscrew from tap spout with spanner).

Maintenance

Filter Cleaning Instructions

This tap is provided with a stainless steel filter to prevent foreign particles from entering the lines. If the water flow has decreased, this can be because the filter is clogged. The filter can be cleaned as follows:

1. Turn off the water shut-off valve.
2. Disconnect the water supply pipe from the adaptor.
3. Remove the filter and wash under running water.
4. Reassemble the parts.
5. Turn on the incoming water supply.
6. Make sure that there is no water leakage.

Care and Cleaning of Chrome and Special Finishes.

DO NOT use steel wool or cleansing agents containing alcohol, acid, abrasives, or the like. Use of any prohibited cleaning or maintenance products or substances could damage the surface of the tap.
For surface cleaning of the tap use **ONLY** soap and water, then wipe dry with a clean cloth or towel. When cleaning bathroom tiles, the taps should be protected from any splattering of harsh cleansers.

If required chlorine can be used at a concentration of 50mg/l maximum in water per one hour dwell time.

Tap Installation - Continued

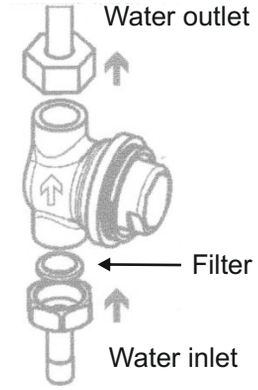
Step 2 - Connecting the water supply

1. Shut off the water supply

2. Make sure the filter is located in the correct orientation between the solenoid housing and the water inlet.

3. Fit the pipe from the spout base to the solenoid valve housing.

4. Fit the water supply inlet to the filter adapter at the solenoid housing.



Step 3 - Connecting the power source

1. Connect the **black** cable coming from the sensor to the solenoid valve connector.

2. Connect the **red** cable coming from the sensor to the power source connector (battery box or transformer).
For battery model: install the battery box underneath the sink using the double sided adhesive foam tape or screws.

3. Turn on the mains water supply. Check for leaks.

4. If the pre-set sensor range is not satisfactory to your purposes, please refer to the section entitled “Range adjustment”.

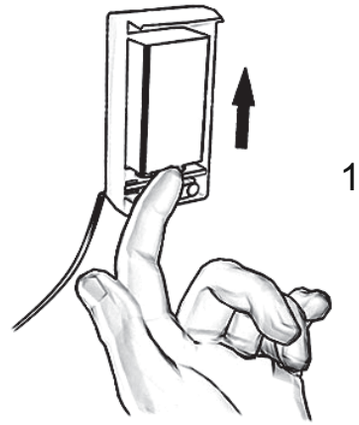
Adjusting the Aerator

This tap includes a special aerator that allows you to adjust the water stream direction on site in order to prevent water splashing if needed.
To change the angle of the water stream, simply move the adjustable tilting plate by pressing it.

Range Adjustment

The sensor range is the distance an object can be away from the sensor in order to activate the tap. The sensor is factory preset. If necessary, it can be adjusted as follows:

Adjusting the sensor range:



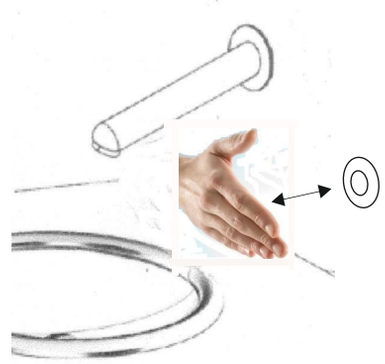
1. Shut off water supply.

2. Disconnect the power supply, battery or transformer, from the sensor.

3. Make a short circuit between the (+) and the (-) of the sensor. Alternatively, after disconnecting the power supply, activate the sensor 3 or 4 times.
Do not make a short circuit on the power supply or on the sensor when the power supply is connected to the sensor.

4. Reconnect the power supply to the sensor.

5. To enter the adjusting mode, put your hand in front of the sensor at a distance of 5cm (2”) to 10cm (4”) within 5 seconds after the reconnection of the power supply. **Note:** If you do not put your hand in front of the sensor after connecting the power supply, the sensor will not enter the adjusting mode and the previous setting will return.



6. When the sensor enters the adjusting mode and your hand is in front of the sensor, a red light at the front of the sensor will flash slowly.

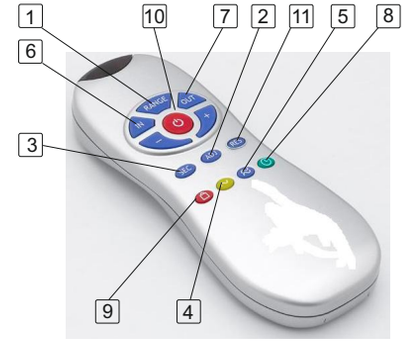
7.Keep your hand in front of the sensor until the slow flashing changes to quick flashing. At this point move your hand to the required distance from the sensor and wait until the red light stops flashing.

8. When the red light has turned off, your sensor has been adjusted to the required distance.

9. Check the distance you have set and if it is not satisfactory repeat steps 1-6.

10. Turn on the water supply.

Range Adjustment using Remote Control - optional and recommended



If necessary, use the remote control to adjust the sensor range as follows:

Hold the remote control straight in front of the sensor about 10cm (4”).
Choose the function you want to adjust by pressing once one of the function buttons.
After pressing on a specific function button, a quick flashing of the red light at the front of the sensor will occur. At this stage adjustments can be made by pressing the (+) or (-) buttons. Every push will increase or decrease one level.

1 DETECTION RANGE - One press of either +/- gives an increase / decrease of 10mm in range up to a maximum of 450mm and a minimum of 80 mm.
2 MANUAL RANGE ADJUSTMENT: Allows the user to adjust the range by using a hand to indicate the distance. Press the ADJ button, the sensor light will flash, place a hand at the desired distance. Adjustment is complete when the light stops flashing.
3 SECURITY TIME: This is to combat vandalism. If the sensor is covered for more than 90 seconds it will shut off. 20 presses will reduce the time to a minimum of 30 seconds
4 FLOW TIME: N/a with taps.
5 FLOW TIME 2: N/a with taps.
6 DELAY IN TIME: N/a with taps.
7 DELAY OUT TIME: Determines the delay time after the user has removed their hands from under the tap. 1 press increases / decreases the time by 3 seconds
8 24 HOUR HYGIENE FLUSH: Provides a timed flush of 24 hours to keep the tap clear from water borne diseases and to stop freezing.
9 LOCK OUT: N/a
10 TEMPORARY OFF FUNCTION: Turns off the flush for one minute to allow for cleaning etc. To cancel the command, press the button again or wait 1-2 minutes
11 RESET BUTTON: Allows the user to return to factory preset options. Press the reset and + simultaneously.

Battery Replacement Instructions
Battery models only
When the battery weakens, the red indicator light will blink at a constant rate when the users hands are within the sensor range. The battery should be replaced within 2 weeks. Always use batteries from a reputable source. Poor quality batteries may affect the performance of the product.

To replace the battery:

1. Carefully open the battery box by removing the 4 screws.

2. Remove the old batteries.

3. Replace with six new 1.5V AA batteries (Alkaline LR6 recommended).

4. Close the box and replace the 4 screws.