

L-180 Series

Wall Mounted Sensor Tap

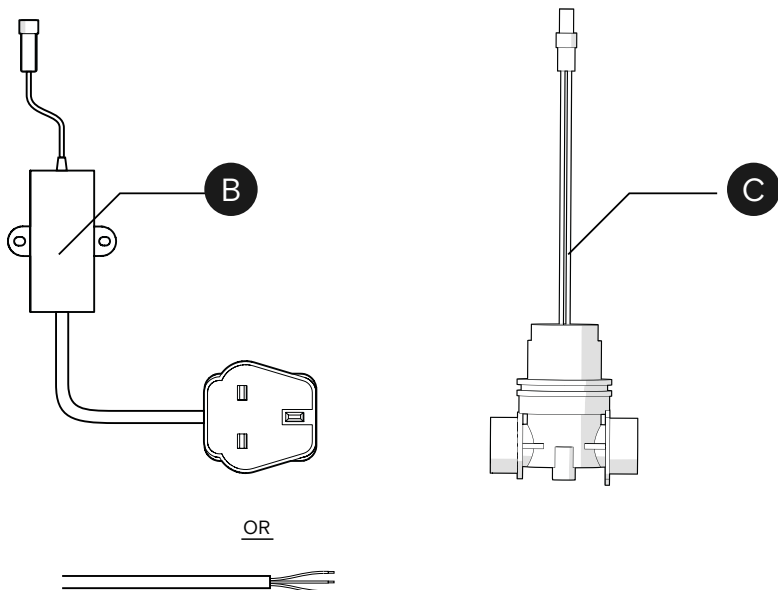
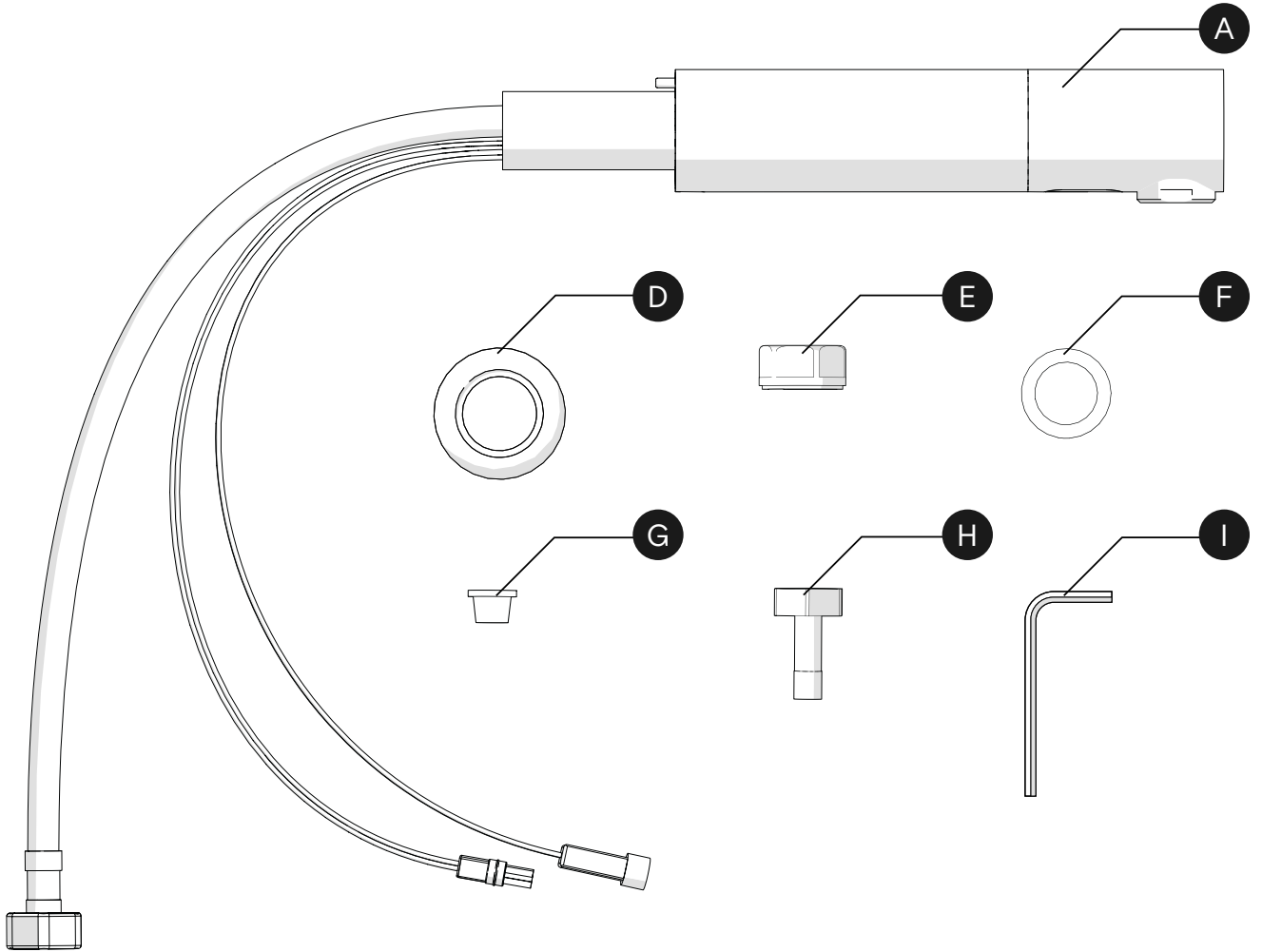
installation + maintenance

+
THE
SPLASH
LAB

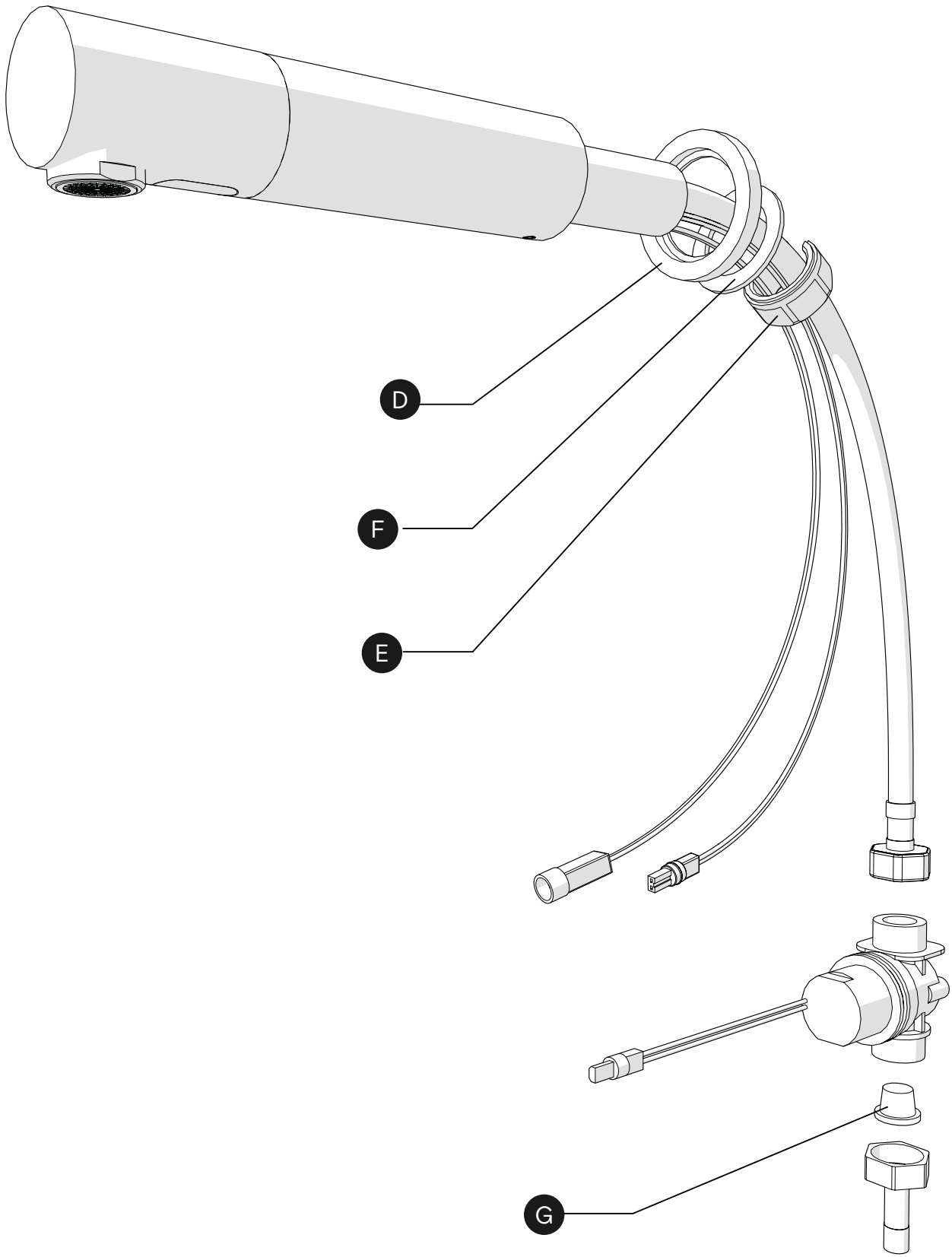
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box contents



A	L-180 Head
B	Power Supply
C	Solenoid
D	Wall Rosette
E	Fixing Nut
F	Washer
G	Solenoid Filter
H	Solenoid Adapter
I	Hex Key



technical data

Mains power supply	110 - 240 V, IP68
Battery power supply	9V (6 x 1.5V AA), IP67
Fuse	3A fused spur to be connected to power supply transformer.
Pre-set sensor range	120mm
Minimum sensor range	80mm
Maximum sensor range	200mm
Security time	90 seconds
Finishes	C (Chrome) / CS (Satin)
Weight	1.16Kg / 1.27Kg Excluding packaging
Size	170mm / 220mm Length
Flow Rates	4 litres per minute (1 GPM (US)) standard. 1.89 and 6 litres per minute (0.5 and 1.59 GPM (US)) also available.
Maximum water temperature	70 °C (158°F)
Recommended mains pressure	2-8 bar (29-116 PSI) static pressure (0.5 bar (7 PSI) min dynamic pressure)

before you install

Power

The L-180 Tap system is provided with the means for either battery or mains power supplies.

Mains power supply systems are fitted with a UK plug as standard, a plugless option is available on request.

Changing the battery

When the battery weakens the red indicator light inside the sensor will blink at a constant rate when the users hands are within the sensor range. The battery must be replaced within 2 weeks.

Battery operated systems utilise 6 x 1.5V AA batteries. See page 14 for instructions on how to replace the batteries.

Water supply

Flush water supply lines thoroughly before installing the tap. Do not allow dirt, Teflon tape or metal particles to enter the tap. Shut off the water supply before installation

Flow Rates

Different flow rates may need to be achieved. The Splash Lab offers a number of flow regulators (See page 5 and 23) which can be used in conjunction with L-180 tap system.

Access Requirements

The L-180 Tap system is provided with the means for either battery or mains power supplies.

Mains power supply systems are fitted with a UK plug as standard, a plugless option is available on request.

Mounting Location

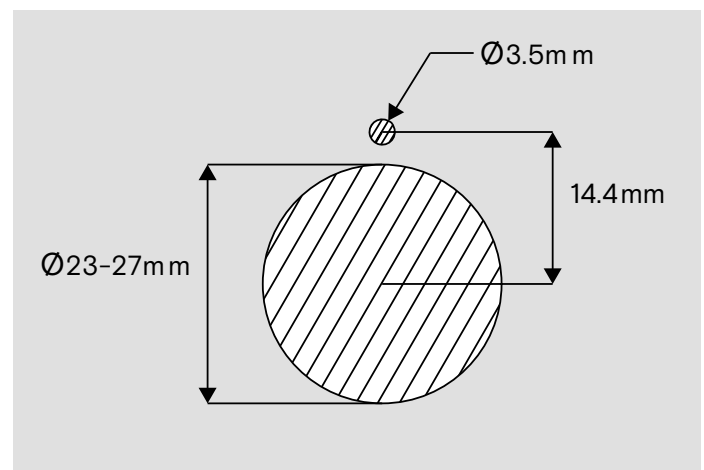
The L180 tap can be installed in to walls with a maximum thickness of 33mm

Taps must be mounted in such a way that the spout should be a minimum of 300mm interference.

Taps should not be installed above highly polished surfaces to avoid reflection interference.

Ensure that holes and appropriate mounting points are created in accordance with the diagram below.

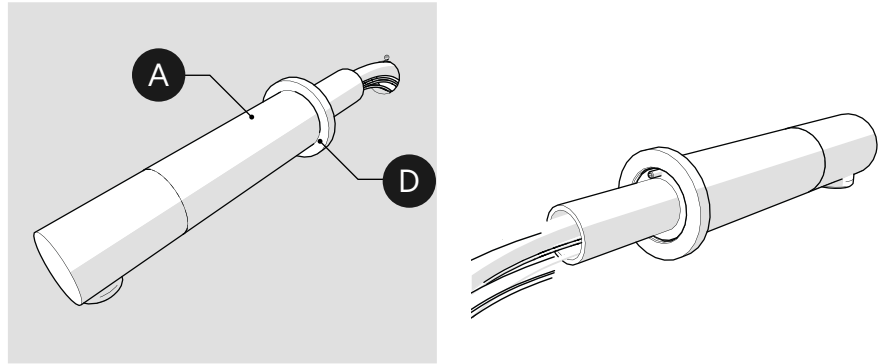
This fixture must be installed 150MM (6') away from other fixtures.



how to install

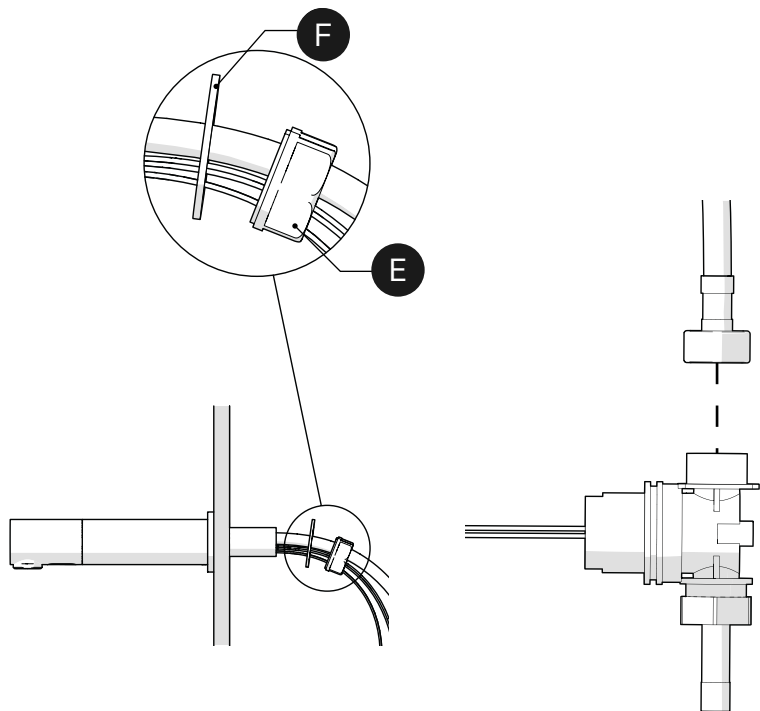
Assemble the wall rosette (**D**) to the base of the tap (**A**). Insert the flexible hose, the cable and the base of the tap through a 23-27mm hole in the wall.

Ensure the anti rotation pin is inserted in to the 3.5mm hole so that the tap spout is angled pointing in the required direction



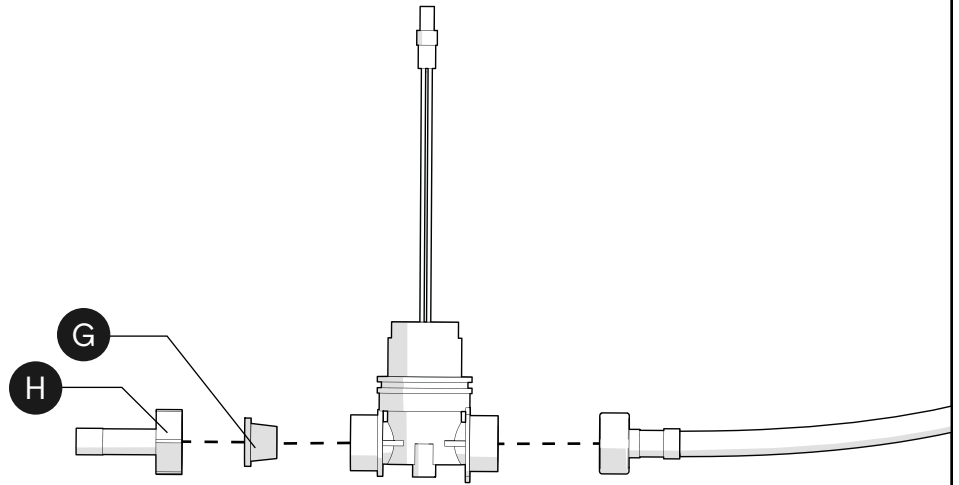
Behind the wall push the washer (**F**) on to the tap base and attach the hexagonal nut (**E**) with the flat surface towards the wall.

Fit the end of the flexible hose on to the solenoid outlet. The solenoid outlet and the inlet can be determined by the arrow on the solenoid showing the directional flow of water



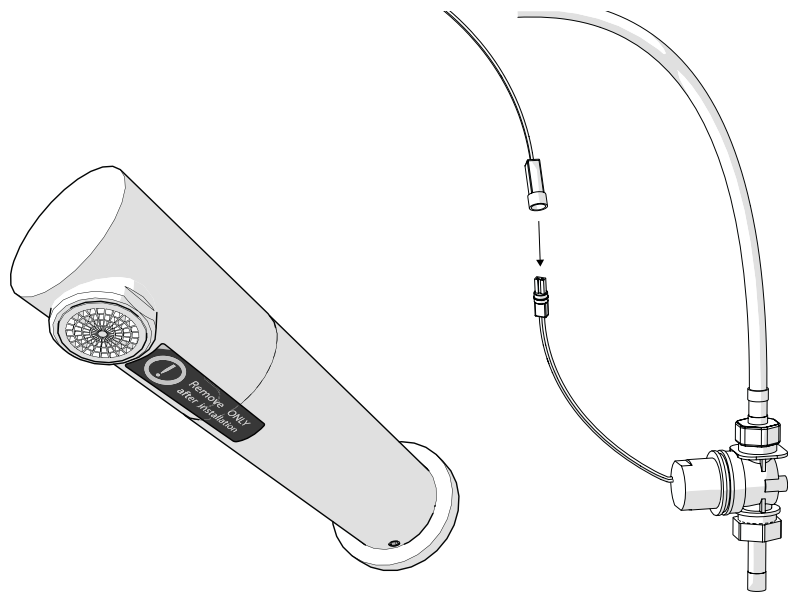
Ensure the filter **(G)** and solenoid adapter **(H)** are assembled to the solenoid inlet with the filter between the adapter and the solenoid inlet

Connect the solenoid to the mains water supply. Turn on the water supply and check for any leaks



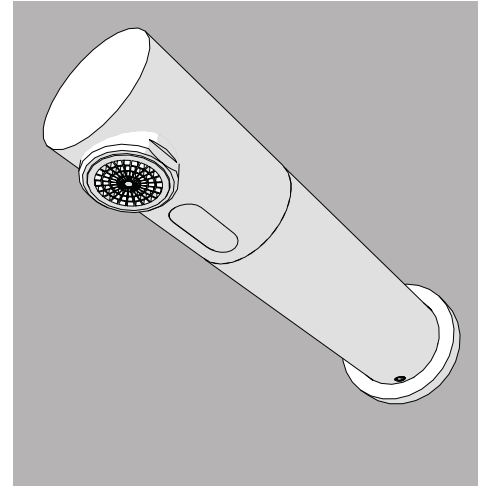
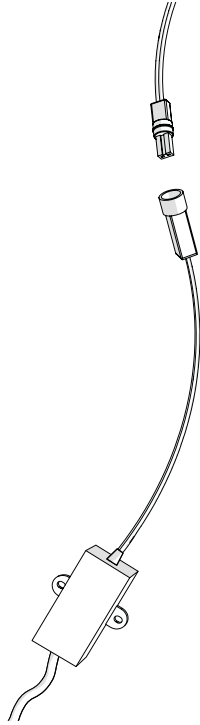
Before powering on the system remove the sensor protection label.

Connect the female connector from the tap to the solenoid connector

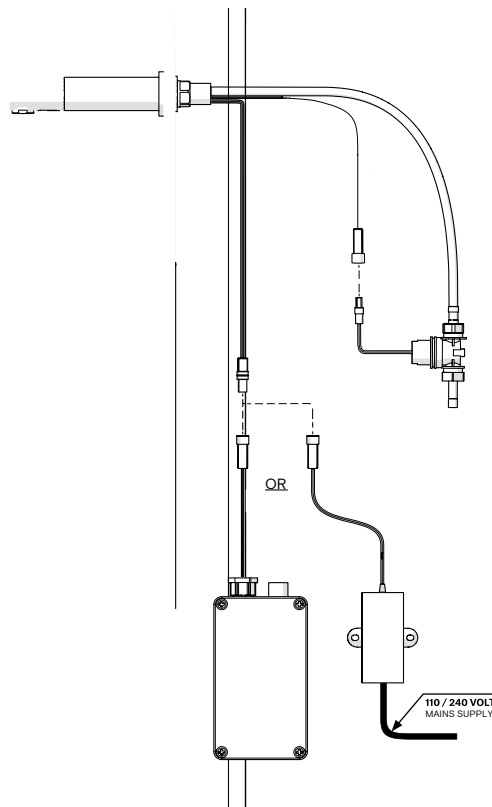


Connect the male connector from the tap to the battery pack or transformer box dependent on your power supply type. If you have a transformer box supply, connect this to the main power supply and turn on the power.

Wait 5 seconds before activating the tap sensor to avoid entering the sensor range adjustment mode.



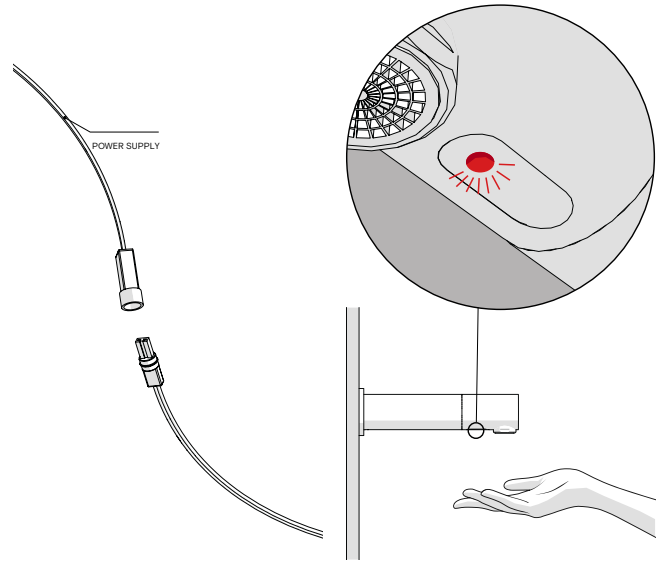
The Complete System



resetting the sensor

Firstly shut off the water supply, Disconnect the power supply, battery or transformer, from the sensor. Activate the sensor 3-4 times while the power is off. Alternatively, while the power is off make a short circuit between the positive and negative pins of the sensor connector using a suitable conductor.

Reconnect and turn of the power-supply within 5 seconds of the power being on put your hand under the sensor positioned 5-10cm (2-4") from the sensor. The sensor should enter adjustment mode indicated by a slow flashing red light in the sensor.



Keep your hand in front of the sensor until the slow flashing turns to quick flashing. Then move your hand to the required distance from sensor and keep your hand there until the red light has stopped flashing.

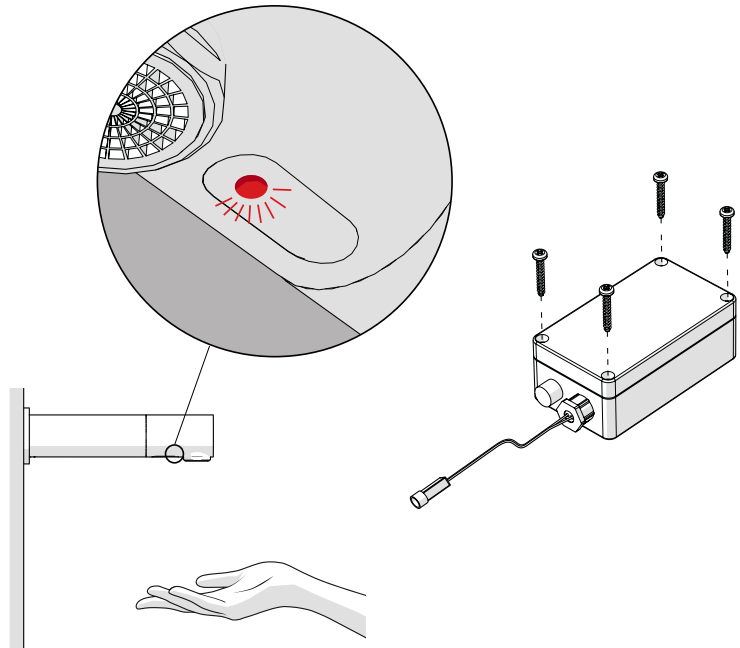
When the red light has gone out the new distance is set. Reconnect water supply.



Changing the batteries

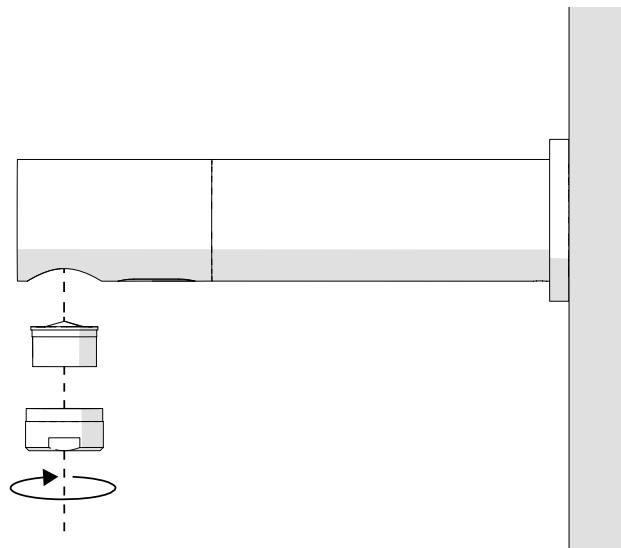
When the battery weakens the red indicator light inside the sensor will blink at a constant rate when the user's hands are within the sensor range. The battery must be replaced within 2 weeks.

Battery operated systems utilise 6 x 1.5V AA batteries. When these need changing, simply unscrew and remove the holder cover and replace the batteries (ensuring the correct polarity). Affix the cover and tighten the screws.



Changing the aerator

Remove the aerator casing at the spout of the tap using a 22mm spanner. Remove the aerator from the casing, ensure you also remove the rubber washer positioned between the aerator and spout. Insert the replacement aerator with the rubber washer in to the casing and screw this back in to the spout.



changing and cleaning the solenoid and filter

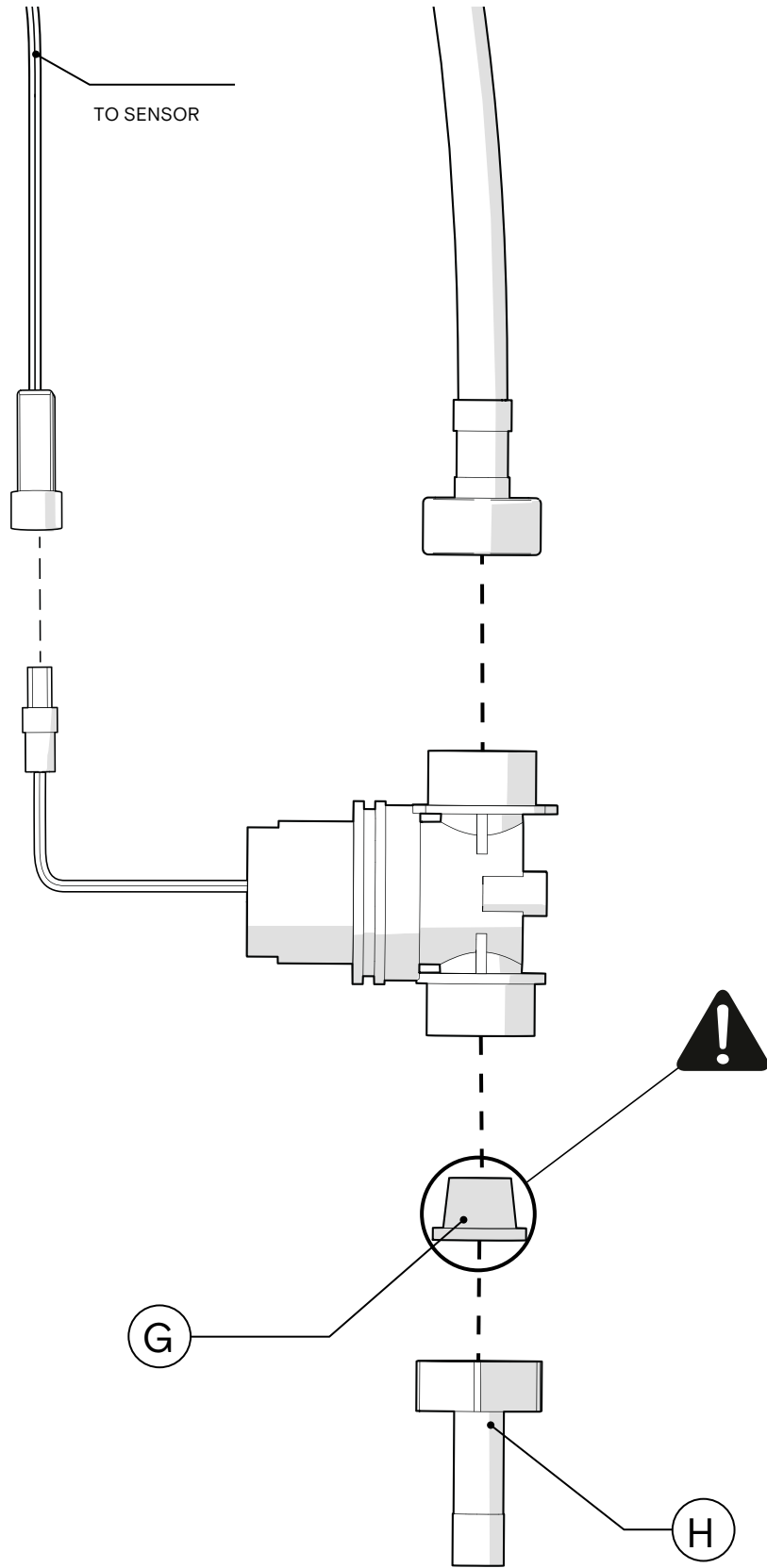
Changing the Solenoid

1. Firstly shut off the water supply.
2. Disconnect the solenoid cable from the sensor.
3. Disconnect the flexi-hose and the solenoid adaptor (H) from the solenoid. Make sure you remove the filter (G) from the faulty solenoid.
4. Take the replacement solenoid. Ensure that the filter (G) and solenoid adapter (H) are assembled to the solenoid inlet with the filter between the adapter and the solenoid inlet.
5. Fit the end of the flexible hose on to the solenoid outlet. The solenoid outlet and inlet can be determined by the arrow on the solenoid housing showing the directional flow of water.
6. Restore the incoming water supply. Check that there is no water leakage.
7. Reconnect the solenoid wire to the mains power supply.

Cleaning./Replacing the Filter

The tap is provided with a stainless steel filter preventing foreign particles to enter the lines. If the water flow has decreased, this may be because the filter is clogged.

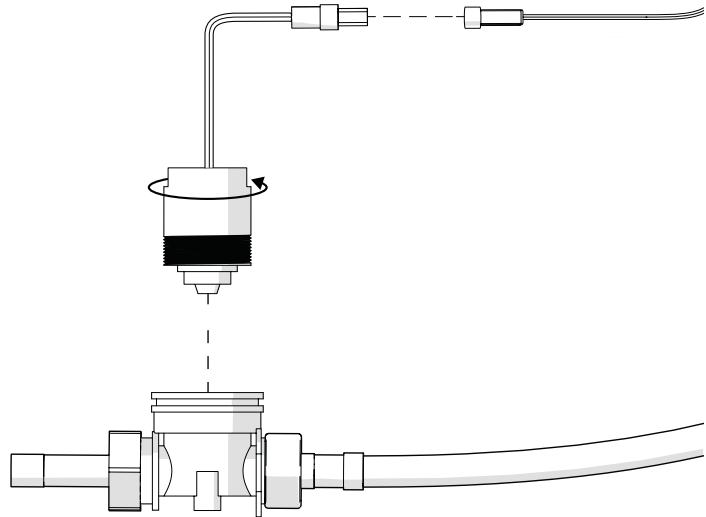
1. Firstly shut off the water supply.
2. Disconnect the solenoid cable from the sensor.
3. Disconnect the solenoid adapter (H) from the solenoid housing and locate the filter (G).
4. Wash the filter under running water to remove any debris.
5. Reassemble the parts as shown.
6. Restore the incoming water supply. Check that there is no water leakage.
7. Reconnect the solenoid wire to the mains power supply.



Changing the Solenoid Valve

First shut off the water supply. Unplug the solenoid from the mains power supply. Use spanner to remove the solenoid valve

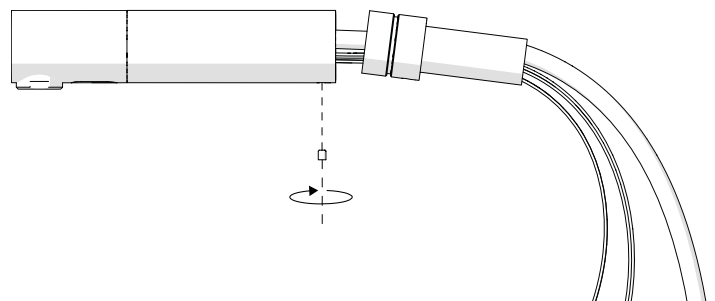
Take the new solenoid valve and re-assemble. Restore the incoming water supply. Check that there is no water leakage. Reconnect the solenoid wire to the mains power supply.



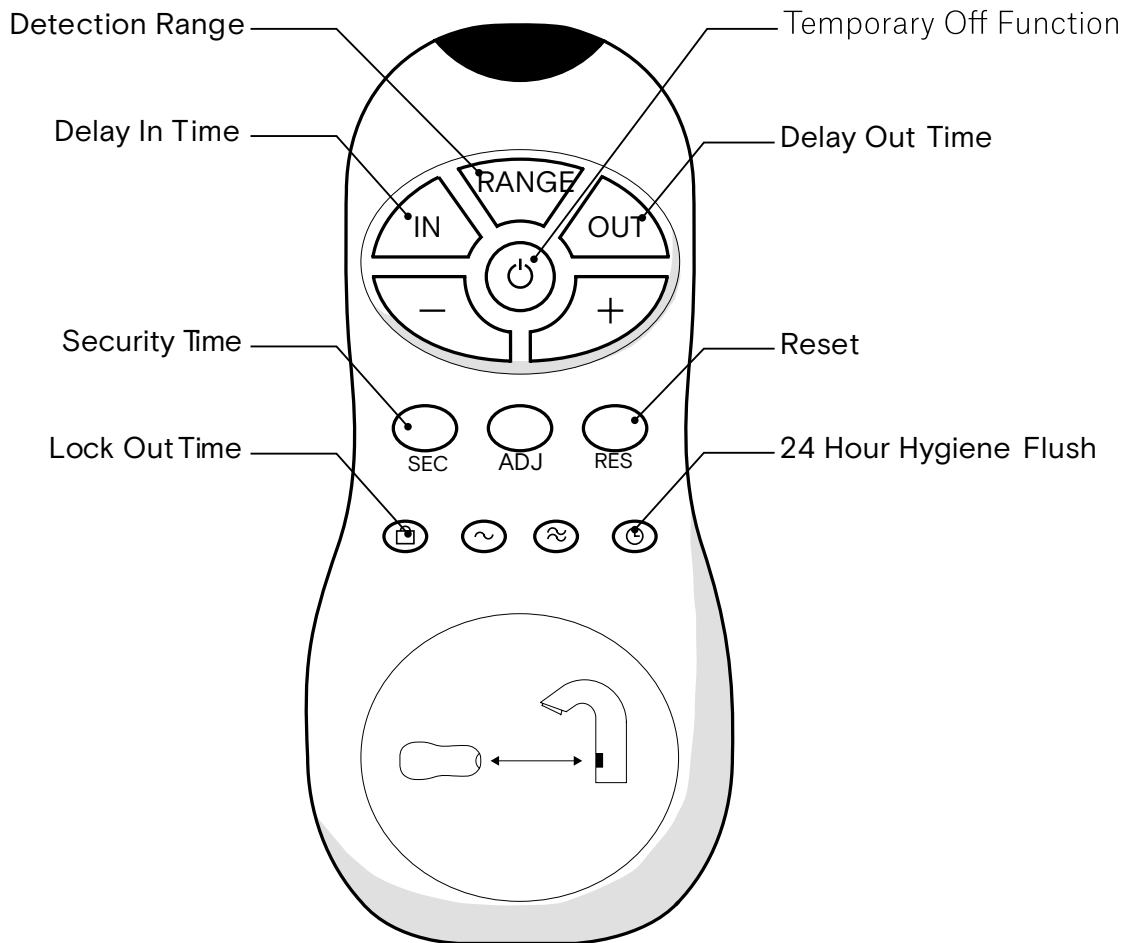
Changing the aerator

Remove the grub screw positioned on the underside of the tap using the hex key provided. Remove the tap stem as shown above.

By hand turn the flexi-hose clockwise to unscrew until free. Insert the replacement flexi-hose through the tap stem and up into the body of the tap and turn flexi-hose counter-clockwise to tighten. Insert the tap stem into the body and screw in grub screw.



settings adjustment - remote control



The remote control can be purchased separately if required to adjust a wider range of settings. The sensor distance can be set manually without a remote control see page 12 for instructions.

- 1.** Shut off the water supply.
- 2.** Hold remote control straight in front of the sensor at a distance of 150-200mm (6-8"). Choose the function you want to adjust by pressing one of the function buttons once.
- 3.** After pressing the specified function button the sensor light should flash quickly. You can then use the + and - buttons to adjust the value from what is currently set to.

Detection Range

The detection range can be adjusted without a remote control, see page 12. Only if necessary, use the remote control to adjust the sensor detection range.

Press “RANGE” button. Wait until you see the sensor light flashing quickly. Press “+” button to increase the detection distance and “-” button to decrease the distance.

24 hour Hygiene Flush

This function is only available with compatible models. If your model has been programmed with a hygiene flush you can enable and disable this function using the remote.

Press 24 hour Hygiene Flush button. Wait until you see the sensor light flashing quickly. Press “+” button to activate this function and “-” button to deactivate.

Temporary Off Function

This function is ideal when performing any kind of activity in front of the sensor without operating the system, such as cleaning.

When the “Temporary Off” button is pressed once the tap will remain shut for 1 minute. To cancel this function and return to normal operation press the button once more.

Reset

This function restores all the factory settings except for the sensor range. If required, press the “Reset” button and without releasing it press the + button once.

Delay Out Time

This button allows modifying the water flow time after the user removes his hands from the tap. A delay out time close to 0 will save more water. An increased delay out time will make the user experience a more comfortable.

Press “OUT” button. Wait until you see the sensor light flashing quickly. Press “+” button to increase the delay out time and “-” button to reduce the time.

Delay in Time

It is recommended to change the delay in time for flush valves for urinals and toilets only. However if required, the delay time can also be modified in taps.

Press the “IN” button. Wait until you see the sensor light quickly flashing. Press the “+” button to increase the delay in time and the “-” to reduce the time.

Security Time

The security time function can prevent continuous running of water due to reflections of vandalism. By default, if the sensor is covered for more than 90 seconds the water flow will shut off automatically. To resume regular operation any obstruction must be removed.

Press the “SEC” button. Wait until you see the sensor light quickly flashing. Press the “+” button to increase the security time and the “-” to reduce the time.

general cleaning

Cleaning

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.

For solenoid filter cleaning instructions see page 13.

troubleshooting

SYMPTOM

ISSUE

No water coming out of the tap , sensor flashes continuously when use r's hands are within the sensor 's range.

Low Battery.

Range is too short.

Range is too long.

Battery is completely used up.

Unit is in "Security Mode"*

Sensor is picking up r eflexions from the washbasin or another object.

Red light in sensor is flashing when use r's hands are within the senso r's range.

Connectors between the electronic unit and the solenoid are disconnected.

Debris or scale in the solenoid.

The central orifice in the solenoid diaphragm is plugged or the diaphragm is torn.

The water supply pressure is higher than 8 bar.

Water flow does no t stop, sensor flashes when users hands are in the senso r's range.

Debris or scale in solenoid diaphragm.

Water flow does no t stop, sensor does not flash when users hands ar e within the sensor's range.

Sensor is dirty or covered.

Sensor is picking up r eflexions from the washbasin or another object.

Water flow diminished .

Filter or aerator is clogged .

We are always looking to improve. If these did not solve your problem please contact us and we will endeavour to help.

Tel: +44 (0)161 482 7000

Email: technical@lovair.com

SOLUTION

Replace batteries (see page 14).

Increase the sensor range (see page 12).

Decrease the sensor range (see page 12).

Replace batteries (see page 14).

If the sensor is covered for more than 90 sec. the tap will shut off water flow. Remove obstruction to sensor.

Eliminate cause of reflection.

Connect the electronic unit connectors to the solenoid.

Unscrew top of solenoid from body, pull out the plunger and the spring from the solenoid and clean them. Use scale remover material if needed. When replacing the plunger, please make sure that the spring is in the vertical position.

Clean the orifice or replace the diaphragm.

Reduce the water supply pressure.

Clean the orifice or replace the diaphragm.

Clean or eliminate cause of interference.

Decrease the range or eliminate cause of reflection.

Remove, clean and re-install.

warranty

We believe the future is personal. With a global mindset, we challenge conventional restroom norms via product innovation to create considered washroom solutions for corporate and educational spaces. We use rich raw materials, cutting-edge automation and considered washroom design to powerfully and positively influence the lives of people. We are The Splash Lab.

Demonstrating our commitment to quality and our belief in the strength of our designs, we can offer the following warranties.

The Splash Lab will warrant that its products will be free of manufacturing and material defects during normal use and environmental conditions as detailed below:

L+180 Wall Mounted Sensor Tap

1 year limited warranty

If a defect is found in normal use, The Splash Lab will, at their discretion, repair, provide a replacement part or product, or make appropriate adjustments. Damage caused by accident, misuse, or abuse is not covered by this warranty. Improper care and cleaning will void the warranty.

Non-operation of the product due to environmental conditions beyond our control, installation error, incorrect maintenance, water quality, fair wear and tear, incorrect or inappropriate installation, misuse and abuse is not covered by the warranty.

Proof of purchase (original sales receipt) must be provided to The Splash Lab with all warranty claims. The above warranty is valid for goods supplied within the United Kingdom.

For goods supplied outside of the United Kingdom, The Splash Lab will honor the above stated warranty periods for the parts only.

THE SPLASH LAB DISCLAIMS ANY LIABILITY FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.

warranty information

1.1 The Supplier warrants that on delivery, and for a period of 24 months from the date of delivery (Warranty Period), the Goods shall:

- (a) conform in all material respects with their description and any applicable Specification;
- (b) be free from material defects in design, material and workmanship; and
- (c) be of satisfactory quality (within the meaning of the Sale of Goods Act 1979) (the "Warranty")

1.2 Subject to clause 1.3, if during the Warranty Period:

- (a) the Customer gives notice in writing to the Supplier during the Warranty Period within a reasonable time of discovery that some or all of the Goods do not comply with the Warranty;
- (b) the Supplier is given a reasonable opportunity of examining such Goods; and
- (c) the Customer (if asked to do so by the Supplier) returns such complete Goods to the Supplier's place of business at the Customer's cost, the Supplier shall, at its option,
 - i) repair or
 - ii) replace the defective Goods free of charge to the Customer, or in each case providing the parts free of charge and the Customer shall pay the full cost of any labour provided by the Supplier at the Supplier's then standard rate, or
 - iii) refund the price of the defective Goods in full.

1.3 The Supplier shall not be liable for Goods' failure to comply with the warranty set out in clause 1.1 in any of the following events:

- (a) the Customer makes any further use of such Goods after giving notice in accordance with clause 1.2;
- (b) the defect arises because the Customer failed to follow the Supplier's oral or written instructions as to the storage, commissioning, installation, use and maintenance of the Goods, including without

limitation the installation guide for the Goods provided by the Supplier, or (if there are none) good trade practice regarding the same;

- (c) the Goods are used on an electricity supply that differs from that stated on the rating plate;
- (d) the defect arises as a result of the Supplier following any drawing, design or Specification supplied by the Customer;
- (e) the Customer alters or repairs such Goods without the written consent of the Supplier;
- (f) the damage or failure is of a consumable item including but not limited to plugs, batteries, lights, diaphragms and filters;
- (g) the defect arises as a result of fair wear and tear, wilful damage, negligence, or an abnormal storage or working conditions; or
- (h) the Goods differ from their description as a result of changes made to ensure they comply with applicable statutory or regulatory requirements.

1.4 Except as provided in these clauses 1.1 to 1.7, the Supplier shall have no liability to the Customer in respect of the Goods' failure to comply with the Warranty set out in clause 1.1.

1.5 The terms implied by sections 13 to 15 of the Sale of Goods Act 1979 are, to the fullest extent permitted by law, excluded from the Contract.

1.6 The Warranty shall apply to any repaired or replacement Goods supplied by the Supplier for such part of the Warranty Period as is unexpired at the date of notification under clause 1.2(a).

1.8 The Warranty shall form part of the Contract between the Supplier and the Customer for the sale and purchase of the Goods and all defined terms shall have the meaning given to them in the Contract.

spare parts

L7500002	Solenoid Valve
L07221009	Solenoid valve complete with housing
L07220144	Sensor kit for L 180 series sensor taps pre-set 120mm (4 ¾")
L09510053	Flexi-hose - ½" BSP thread - 450mm (17 ¾")
L06530021	Transformer for sensor taps - IP67 - Female
L230285	Transformer for sensor taps - IP68 - Female
L06530020	Battery Box for sensor taps - IP67 - Female - with batteries
L08510040	Aerator - Cascade 4 Litres Per Minute (1.0 GPM (US))
OPTIONAL ACCESSORIES	
L06001012	Power splitter 2 Way - 1M-2F -1.5 metre (59")
L06001008	Power Splitter 3 Way - 1M-3F-1.5metre (59")
L06009016	Extension Cable 1 metre (39¾")
L06009032	Extension Cable 4 metres (157½")

OPTIONAL ACCESSORIES (CONTINUED)

L09510073

700mm (27 9/16") Flexi-hose - 1/2" BSP thread

L0710005

Remote Control for sensor tap

L08510012

Aerator - 1.89 litres per minute (0.5 GPM(US))

L08510034

Aerator - 6 litres per minute (1.59 GPM (US))

L08510037

Aerator - 4 litres per minute (1.0 GPM (US))

contact



General information

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