

## INSTALLATION AND MAINTENANCE GUIDE

# DB620 /DB625

## PROX SENSOR KIT



Important:

Read carefully before installing product



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## TECHNICAL DATA



PROX Sensor



or PROX sensor front fixation



Acetal solenoid



Interoperable solenoid



Solenoid housing with filter and inlet nipple



9V Battery box



9V Transformer



Battery box  
for 6x1.5V  
AA batteries



IP68 Switching  
Transformer

**Sensor Type**

Prox sensor

**Power Supply**

9V battery or 9V transformer

**Recommended water pressure**

0.5-8.0 bar (7-116 PSI). With water pressure of more than

8 bars, use a pressure reducing valve

**Hot water temperature**

Max 70°C

**Min. sensor range**

30mm / 1.18"

**Max. sensor range**

300mm / 1.81"

## PRE INSTALLATION VERSION

### **Check contents**

Separate all parts from packaging and check each part with the pack contents section.

Make sure all parts are accounted for before discarding any packaging material. If any parts are missing, do not attempt to install the electronic tap until you obtain the missing parts.

### **Warnings**

Do not install the system facing a mirror or any other electronic system operated by an infrared sensor.

To prevent reflection problems, it is recommended keep a minimum distance of 1.50 meters between the tap and other objects.

### **Preparation for installation**

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

All plumbing is to be installed in accordance with applicable codes and regulations.

### **Important:**

All plumbing is to be installed in accordance with applicable codes and regulations.

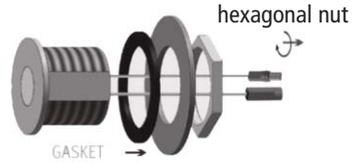
### **Operation**

Once the kit is installed and connected to the water supply: Water will be delivered automatically when the user leaves the sensor range after using the urinal. The water flow

# INSTALLATION

## Step 2 preparation for installation

1. Remove the hexagonal nut, disk and gasket from the sensor body.

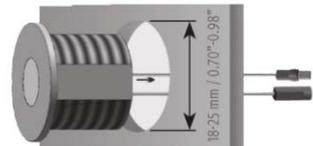


2. Shut off the water supply

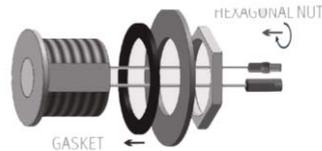


## Step 2 Installing the system

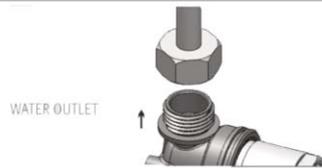
1. Place the sensor at its designated location.



2. Slide the hexagonal nut, disk and gasket over the sensor body and secure them into place.



3. Connect the water outlet to the solenoid valve housing.



4. If your system is provided with an inlet nipple, fit the water supply inlet to the inlet nipple at the solenoid valve housing or connect it directly to the shut off valve.



## INSTALLATION PROX

5. Turn on the central water supply and the shut-off valves (angle valves) and check for leaks.

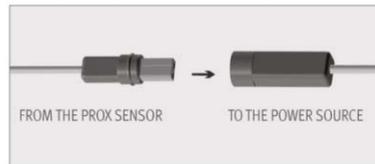


6. Connect the waterproof connector coming from the prox sensor to the solenoid valve connector.



### Step 3 Connecting the Power Source

1. Connect the waterproof connector coming from the prox sensor to the power source.



2. For battery models: Install the battery box at the wall using the screws or the two sided adhesive foam tape.



3. For transformer models:

a. Connect the waterproof connector coming from the prox sensor to the transformer.



b. Plug the transformer into the electrical socket.

Important: In order to avoid going into adjusting mode, wait 10 seconds before operating the system.

## INSTALLATION

### Step 2 – Preparation For Installation

1. Shut off the water supply



2. Cut an adequate opening in the wall for the dimensions of the front fixation PVC pipe.

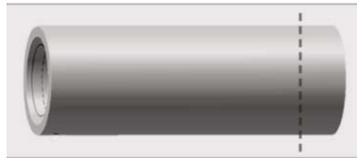


### Step 3 – Installing the system

1. Insert the PVC pipe through the opening



2. Once the construction works have been completed, cut the PVC pipe to the desired length.



3. Place the sensor in the PVC pipe and tighten the two Allen screws provided. Important: Make sure to place the solenoid valve and housing as well as the power source in an accessible location such as under the sink or in the ceiling.



4. Connect the water outlet to the solenoid valve housing.



## INSTALLATION PROX FRONT FIXATION

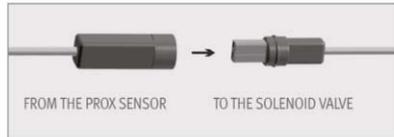
5. If your system is provided with an inlet nipple fit the water supply inlet to the inlet nipple at the solenoid valve housing or connect it directly to the shut off valve.



6. Turn on the central water supply and the shut-off valves (angle valves) and check for leaks.



7. Connect the waterproof connector coming from the prox sensor to the solenoid valve connector.



### Step 3— Connecting the power source

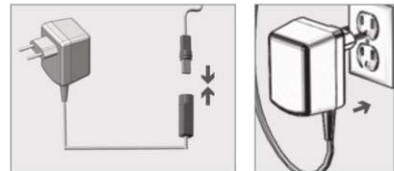
1. Connect the waterproof connector coming from the prox sensor to the power source.



2. For battery models: Install the battery box at the wall using the screws or the two sided adhesive foam tape.



3. For transformer models: a. Connect the waterproof connector coming from the prox sensor to the transformer. b. Plug the transformer into the electrical socket.



Important: In order to avoid going into adjusting mode, wait 10 seconds before operating the system.

## SETTINGS ADJUSTMENT



### Adjusting the settings with the remote control

If necessary, the sensor settings can be adjusted as following:

Shut off the water supply. In order to adjust the sensor with the remote control, hold the remote control straight in front of the sensor in a distance of about 6-8" (15-20cm). Choose the function you want to adjust by pressing once on one of the function buttons. After pressing once on a specific function button, a quick flashing of the LED at the front of the sensor will occur. At this stage, you can change the setting by pressing the (+) or the (-) buttons, every push will increase or decrease one level. After finishing the adjustment, turn the water supply back on.

## SETTINGS ADJUSTMENT



PROX WAVE

**DETECTION RANGE:** Only if necessary, use the remote control to adjust the sensor range as follows: Press the RANGE button. Wait until a quick flashing of the LED in the sensor eye is perceived. Then, press + to increase the one level and – to reduce it every push will increase or decrease one level.

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**Note:** Once you have changed the detection range with the remote control, this distance will be remembered by the sensor, even if the power source is disconnected.



PROX

**DELAY IN TIME:** If required, the delay in time can also be modified as follows: Press the IN button. Wait until a quick flashing of the LED in the sensor eye is perceived. Then, press + to increase the delay in time and – to reduce it.

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PROX

**DELAY OUT TIME:** This button allows modifying the flushing start time after the user moves away from the product. A delay out time close to 0 will save more water. An increased delay out time will make the user experience more comfortable. If required, the delay out time can be modified as follows: Press the OUT button. Wait until a quick flashing of the LED in the sensor eye is perceived. Then, press + to increase the delay out time and – to reduce it.

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PROX WAVE

**TEMPORARY OFF FUNCTION:** This function is ideal to perform any kind of activity in front of the sensor without operating the system (for example, cleaning). The product will remain shut for 1 minute when this button is pressed once. To cancel this function and to return to normal operation press the On/Off button again or wait 1 minute.

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## SETTINGS ADJUSTMENT



PROX WAVE

**RESET BUTTON:** 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.

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PROX WAVE

**SECURITY TIME:** The Security time, prevents continuous flushing of water due to reflections or vandalism. By default, if the sensor is covered for more than 90 seconds the water flow will shut automatically. To resume regular operation any obstruction must be removed. Press the SEC button. Wait until a quick flashing of the LED of the sensor eye is perceived. Then, press + to increase the security time and – to reduce it.

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PROX WAVE

**24 HOUR HYGIENE FLUSH:** This model includes a 24 hours hygiene flush which is disabled. To activate the hygiene flush, press the clock button. Wait until a quick flashing of the LED of the sensor eye is perceived. Then press + to activate the hygiene flush. To disable it PROX WAVE again, press – to deactivate it.

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PROX WAVE

**COMFORT FLUSH:** If your model includes a Comfort flush setting, it can be activated by pressing the flush button. When the button is pressed, one blink of the blue in the sensor eye is perceived. The pre-programmed flush cycle will take place then. The Comfort flush cannot be interrupted or deactivated by pressing any button until it is over.

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## MAINTENANCE

### **Filter cleaning instructions**

The system is provided with one stainless steel filter preventing foreign particles to enter the lines. If the water flow has decreased, this may be because the filter is clogged. The filter can be cleaned as follows:

1. Shut-off the water shut off valve.
2. Disconnect the flexible pipe.
3. Remove the filter and wash it under running water.
4. Reassemble the parts.
5. Reconnect the flexible pipe and restore the incoming water supply.
6. Make sure that there is no water leakage.

### **Care and cleaning of the sensor unit surface**

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 sensor unit. For surface cleaning of the sensor unit use ONLY soap and water, then wipe dry with clean cloth or towel. When cleaning bathroom tile, the unit should be protected from any splattering of harsh cleansers.

## TROUBLE SHOOTING

| PROBLEM  | INDICATOR  | CAUSE  | SOLUTION   |
|--|--|--|--|
| Valve does not flush   | 1. Sensor flashes continuously when user steps within sensor's range.          | Low battery.   | Replace battery.   |
|  | 2. LED in the sensor does not flash when user steps within the sensor's range. | 1. Range is too short.   | Increase the range.  |
|  |  | 2. Range is too long.  | Decrease the range.  |
|  |  | 3. Battery is completely used up   | The battery must be replaced.  |
|  |  | 4. Sensor is picking up reflections from the washbasin or another object.    | Eliminate cause of reflection.   |
|  | 3. LED in the sensor flashes when user's hands are within the sensor's range.  | 1. Connectors between the electronic unit and solenoid are disconnected.     | Connect the electronic unit connectors to the solenoid.  |
|  |  | 2. Debris or scale in solenoid   | Unscrew solenoid, pull out the plunger and the spring from solenoid, clean them with pressure or use scale remover material if needed. |
|  |  | 3. The central orifice in the diaphragm is plugged or the diaphragm is torn. | Clean the orifice or replace diaphragm.  |
|  |  | 4. The water supply pressure is higher than 8 bar.                           | Reduce the supply water pressure.  |
|  | Valve does not shut off:   | 1. Sensor flashes when user steps within the sensor's range.                 | Debris or scale in diaphragm or the diaphragm is torn.   |
| 2. LED in the sensor does not flash when user steps within are the sensor's range. |  | Sensor is dirty or covered.  |  |

## LIMITED WARRANTY

Dolphin warrants that its electronic taps, flush valves and controls will be free of defects in material and workmanship during normal use for two years from the date the product is purchased.

If a defect is found in normal use, Dolphin will, at its 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. Proof of purchase (original sales receipt) must be provided to Dolphin with all warranty claims. Dolphin is not responsible for labor charges, installation, or other incidental or consequential costs other than those noted above. In no event shall the liability of Dolphin exceed the purchase price of the tap, valve or control. If you believe that you have a warranty claim, contact your Dolphin Dealer or Plumbing Contractor. Please be sure to provide all pertinent information regarding your claim, including a complete description of the problem, the product, model number, the date the product was purchased, from whom the product was purchased and the installation date. Also include your original invoice.

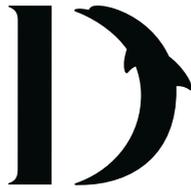
DOLPHIN AND/OR SELLER DISCLAIM ANY LIABILITY FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. This warranty excludes product damage due to installation error, incorrect maintenance, wear and tear, battery, water composition, product abuse, or product misuse, whether performed by a contractor, service company, or the consumer. This warranty does not cover product damage caused by the following:

- Incorrect installation, inversions of supply pipes.
- Pressures or temperatures exceeding recommended limits.
- Improper manipulation, tampering, bad or lapsed maintenance.
- Foreign bodies, dirt or scale introduced by the water supply.



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