

ZIP Sensor Tap DC

Touch-free automatic tap



42221 Sensor Tap DC Model

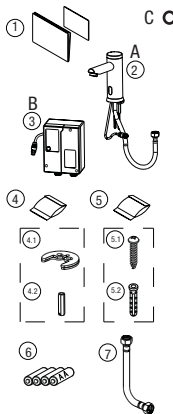


1. SPECIFICATIONS :

Control Box Dimension (WxHxD)	10.2 X 13.6 x 6.3 cm
Faucet Dimension (WxHxD)	5.4 x 15.1 x 14.1 cm
Power	DC 6V Battery 4pcs of Alkali AA 1.5V
Detection Range Adjust (200mm)	Dynamically or Fixed by DIP switch
Water Pressure	0.5~7 bar (kg/cm ²) (7~100psi)
Pedestal	Single Hole ø3.6 cm (Max.)
Pipe Size	BSP 1/2"
Time Delay	0.5 ~ 1 sec
Water Temperature	5 ~ 55°C

2. ITEM LIST :

ITEM	DESCRIPTION	QTY
1	1 x Installation Instruction, 1 x Installation Template	1pc
2	Spout (Faucet)	1set
3	Control Box	1set
4 INSTALLATION KIT (1)	4.1 Fixation Washer	1pc
	4.2 Fixation Nut	2pcs
5 INSTALLATION KIT (2)	5.1 T4 x 16 Screw	2pcs
	5.2 Plastic Dowel	2pcs
6	4 pcs of Alkaline Battery AA (1.5V each)	4pcs
7	Flexible Hose (Water Connector) 1/2" x 1/2"	1pc



SPARE PARTS KIT LIST :

ITEM	DESCRIPTION	KIT NO.
A	SPOUT (FAUCET) KIT	99145
B	DC CONTROL BOX KIT	99146
C	O-RING SEAL KIT	99147
D	SENSOR ASSEMBLY KIT	99150

3. OVERVIEW :

ITEM	DESCRIPTION
A	Control Box Cover (Left)
B	Control Box Cover (Right)
C	Rubber Plug
D	Solenoid Valve
E	Valve Body
F	Filter
G	Filter Plug
H	Battery Housing
I	Battery Housing Lid
J	Housing
K	Sensor
L	Screws
M, N	Sensor Connector
O, P	Battery Connector
Q, R	Solenoid Valve Connector
S	Faucet Body
T	Aerator
U	Fixation Washer
V	Fixation Nut
W	Flexible Hose to Spout
X	Flexible Hose (Water Connector)

4. INSTALLATION:

4.1 Precaution

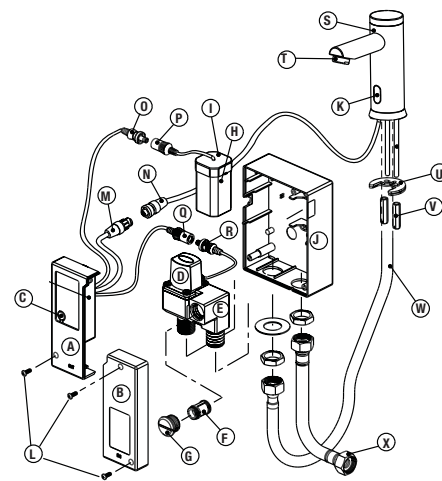
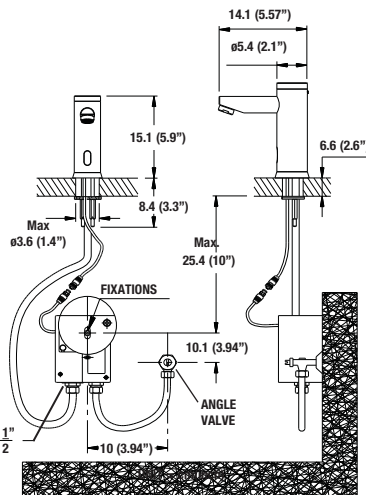
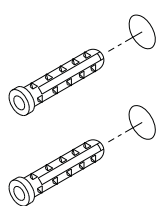
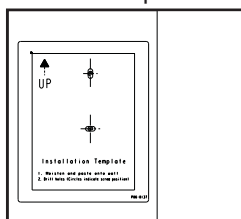
Prior to connecting the water supply, make sure to flush the supply pipe thoroughly.

Dirt and big particles from the water supply might lead to clogged filters and result in malfunction

4.2 Drilling Holes Into Wall

a. Paste Installation Template onto wall, then drill 2-ø6mm holes.

b. Insert the plastic dowels into the holes.



4.3 Remove Right Control Box Cover (Fig. 4.3)

- Remove the two screws and take off the Right Cover.

4.4 Remove Battery Housing (Fig. 4.4)

- Unplugged battery connector cable and remove the battery housing.

4.5 Fix Control Box (Fig. 4.5.1)

- Position control box over dowel, fix it with screws provided.

Important Note: Control box must be installed according to Fig. 4.5.2 as wrong installation may lead to malfunction.

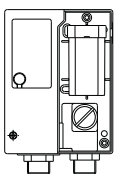


Fig. 4.3

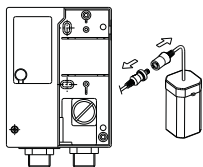


Fig. 4.4

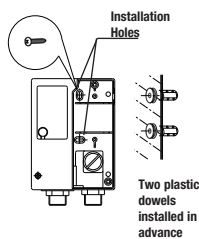


Fig. 4.5.1

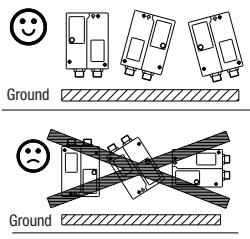


Fig. 4.5.2

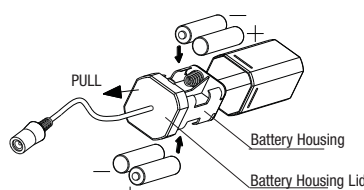
4.6 Battery Assembly

- Remove lid from battery housing, insert Alkaline AA (1.5V) Battery as shown (Fig. 4.6.1) and put it back.
- Plug in battery connector cable and place battery housing into control box. Close right cover (Fig 4.6.2).

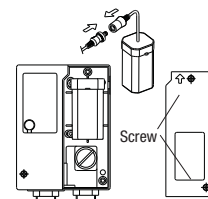
4.7 Install Faucet (Fig. 4.7)

- Insert faucet shaft and sensor cable into basin opening.
- Put fixation washer over faucet shaft and cable.
- Fix faucet firmly with fixation nut.

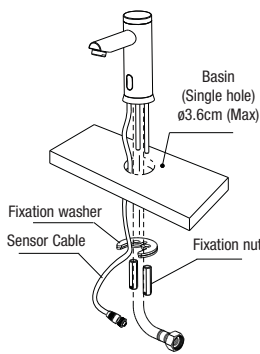
4.8 Connect Water and Sensor (Fig 4.8.1 & 4.8.2)



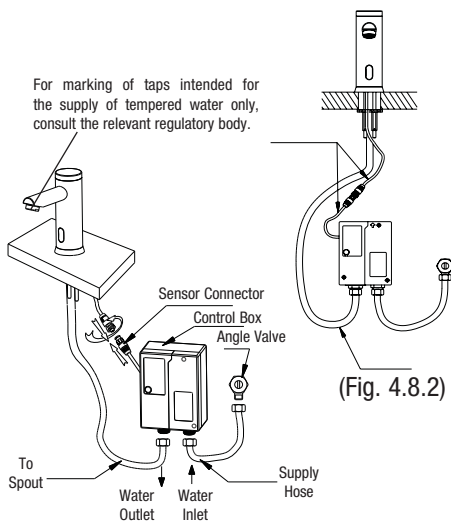
(Fig. 4.6.1)



(Fig. 4.6.2)



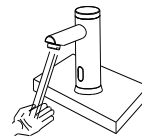
(Fig. 4.7)



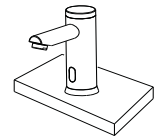
(Fig. 4.8.1)

Recommendation: If intended to be installed with tempered water, the sensor tap must be installed with a Zip Thermostatic Mixing Valve or similar product and in accordance with local authority guidelines.

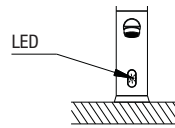
5. OPERATION:



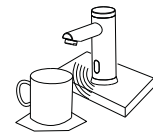
(1) Place hand under faucet, water will flow automatically. Sensing range will be adjusted automatically in 3 seconds after power up.



(2) Remove hand, water will stop automatically within 0.5~1 sec.



(3) The LED will be on for 1 second after detection. Detection and still working, but LED flashes which signals "low voltage"



(4) With the security setting to be off after 45 seconds and detection range set dynamically, the water will stop flowing after 1 minute. (Refer to 6.1)

6. ADJUSTMENTS AND MAINTENANCE:

6.1 Sensing range adjustment (Fig. 6.1)

Remove rubber plug and set switch to :

Position a. Security off after 45 seconds or.

Position b. Security off after 3 seconds.

Position c. Variable Detection Range Adjustment mode.

Position d. Detection Range – Factory or Adjusted setting.

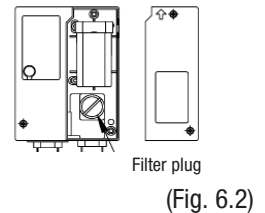
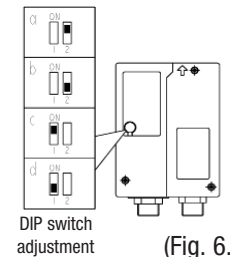
(Note: Factory default setting fixed at 150mm +/-50mm)

- To adjust the sensing distance to your personal preference, select dip switch option "Position c".
- Disconnect the power (AC or DC)
- Hold a reflective surface (e.g. white carton) at the distance required from the sensor (Note that a highly reflective surface, such as a white carton, will have approx. 100mm longer sensing distance than a typical hand, when judging your preferred sensing range)
- Reconnect the power and maintain the reflective surface at the required distance.
- Observe the flashing light in the sensor which should stop after 4 flashes or approximately 5 seconds. If the light continues to flash, the reflective surface has been positioned too close to the sensor and the new setting will not be registered. Reposition the reflective surface 100mm farther away from the sensor and repeat the above steps.
- When the light has stopped flashing (or the 5 seconds has elapsed), remove the reflective surface and set the dip switch to "Position d", within 60 seconds. NOTE: If the dip switch is not switched to "Position d" within the 60 seconds, the sensing range will automatically adjust back to the factory default setting.
- Once the new setting has registered with the controller, this will be the default setting for selected "Position d".
- NOTE: In "Position d" the sensing range will be reset to the factory default if the power is disconnected for more than one minute, after which your preferred setting would need to be re-establish following the above instructions.
- Replace the rubber plug and secure the assembly.

6.2 Cleaning the Filter (Fig. 6.2)

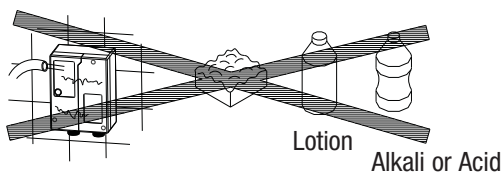
Filter should be checked regularly.

- Remove right control box cover.
- Shut-off water supply at angle valve.
- Remove filter plug and filter, then wash thoroughly and re-assemble.



7. CLEANING INSTRUCTIONS:

- Use soft, dry or damp cloth only to clean the control box, sensor window and faucet. Do not use any abrasive material, chemicals and excessive water to clean the unit, as this may damage the plated finish and the sensor.



8. PRECAUTIONS:

- Keep control box safe from impact as this may lead to damage.
- Ensure that the sensor is not damaged or scratched through impact.
- The sensor and control box should be kept dry.
- Ensure that the sensor is not blocked or disturbed by any object within its detection range and that no strong light source is aimed directly at it.
- Never use chemicals to clean the unit. Use only soap and soft cloth.
- This appliance is not intended for use by persons (Including Children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure they do not play with the appliance

9. TROUBLE SHOOTING (FOR QUALIFIED ELECTRICIAN USE ONLY) :

(1) The LED is not on, no water flows.

Problem		Solution
a. Detection range is too short		Refer to 6.1 for adjustment instructions
b. Battery connection loose		Re-connect
c. No power supply	No battery	Connect battery as per Fig. 4.6
	Low battery	Exchange battery as per 6.3
d. Circuit board is faulty		Do not attempt repair, contact your dealer

(2) The LED is on, no water flows.

Problem	Solution
a. Filter is clogged	Clean as per 6.2
b. Solenoid connector is loose	Connect it properly
c. Solenoid valve is faulty	Do not attempt repair, contact your dealer.

In order to help preserve our environment we ask that you dispose of this product correctly. Please contact your local city council for collection centre details.

Head Office

Zip Heaters (Aust) Pty. Ltd.
 ABN 46 000 578 727
 67 Allingham Street
 Condell Park NSW 2200
 Postal: Locked Bag 80
 Bankstown 1885 Australia

Website: www.zipheaters.com
 Facsimile (02) 9796 3858
 Telephone (02) 9796 3100
 Free Call 1 800 638 633

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