



Sensor Faucet Introduction



Application





Appearance

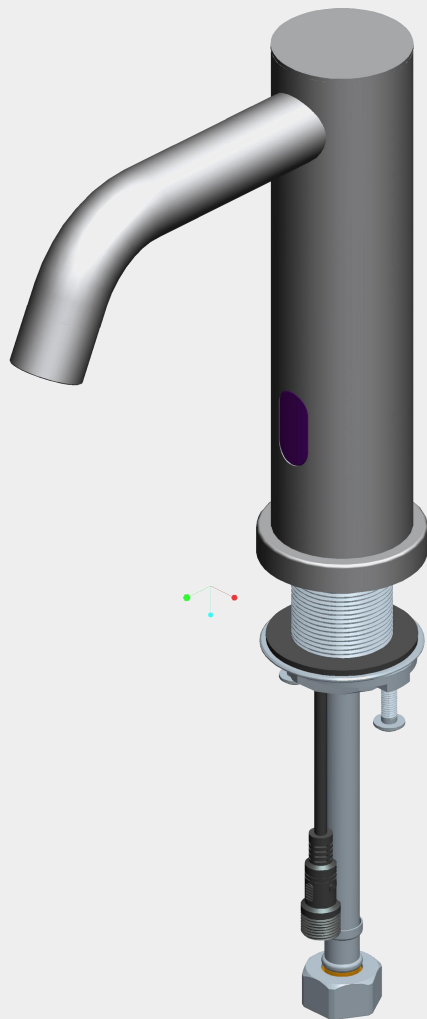


RJY-11-S101AD

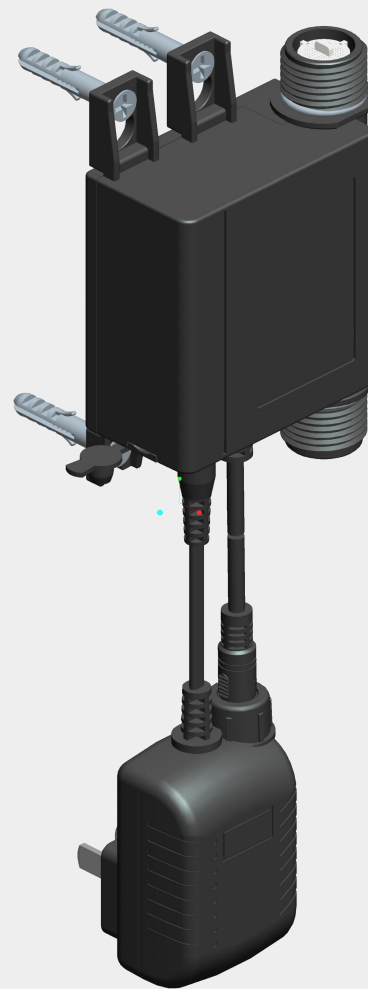




Configuration



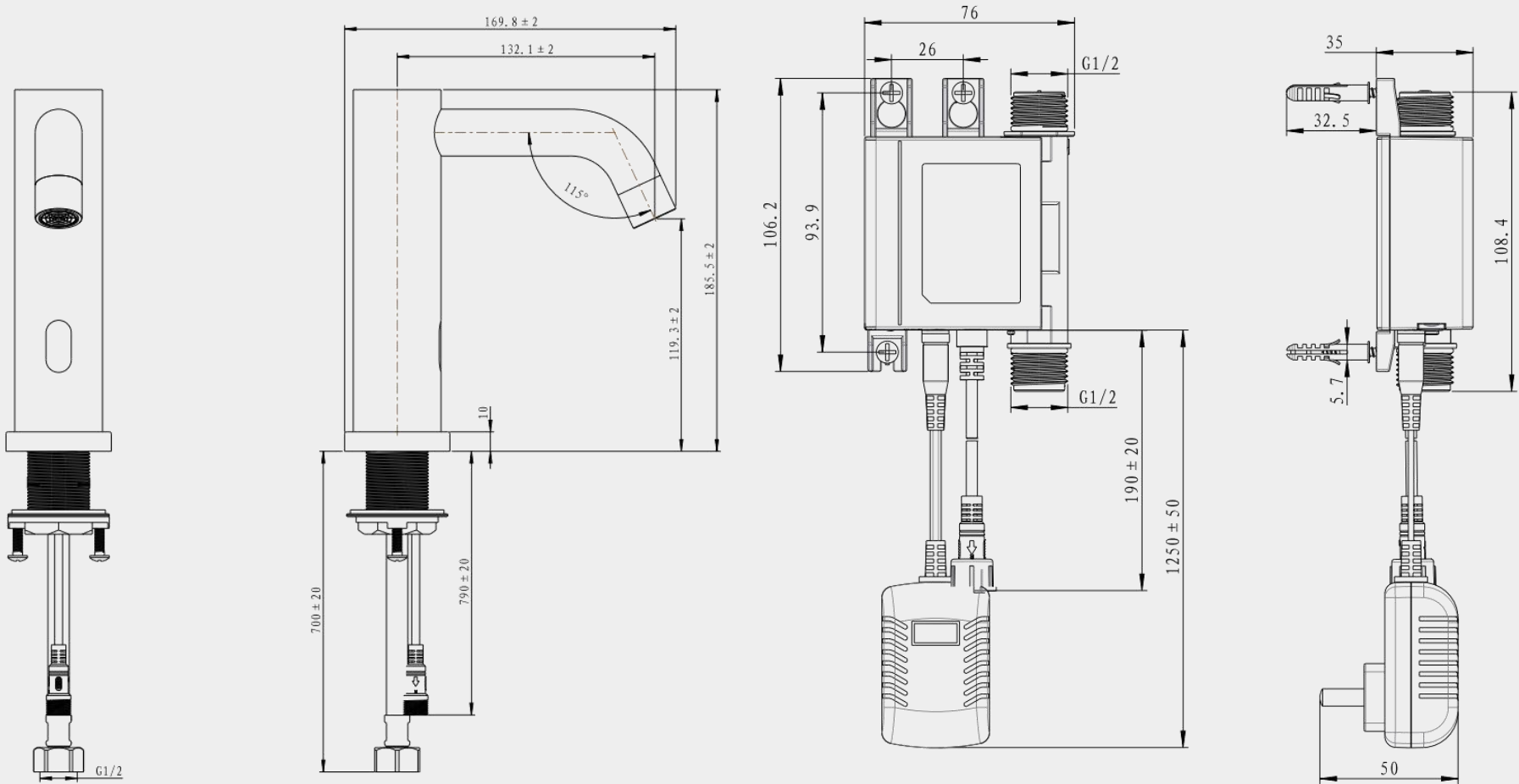
Faucet body



阀盒模组



Dimension



Technical parameters

NO.	Items	Parameters
01	Power supply	DC 2.4-3.2V 2 AAA alkaline batteries/AC110-240V adapter--Output: 5.0-6.5V/1A (Ripple<60mW)
02	Static consumption	≤ 40 uA
03	Sensor distance	1. Adjustable sensor range: 15-45CM 2. Default sensor distance: 25CM (Standard 29*29cm white board)
04	Sensitivity	0.512 s
05	Pulse width	≤20 ms
06	Max. water flow	60s±6s
07	Working temperature	0 ~ 50 °C
08	Storage temperature	- 40 ~ 80 °C
09	Relative humidity	10 % - 95 %
10	LED flashing	1. LED light flashes 5 times when power-on 2. LED light flashes once when obstacles detected 3. LED light flashes for 10s with 0.5 each time when it is low power 2.4±0.1V
11	Program	Water flows when obstacles detected; water stops when obstacles leave.
12	Stability	Voltage stability: When voltage decreases from 3.2V to 2.4V, the sensor distance variety is lower than ±10% Temperature stability: When temperature increase from 0°C to +70°C, the sensor distance variety is lower than ±10%
13	Anti-interference	No malfunctions when same models installed at 50cm interval working at the same time No malfunctions when working with 1kw hair drier at and light 40w electronic ballast fluorescent lamp when with one AC socket and when at 2cm with batteries power supply. Sensor distance variety no more than ±10% when light is 50lx at 45° position
14	Response time	Open≤1s, close≤1.5s
15	Water pressure	0.05MPa-0.6MPa
16	Water flow rate	Static pressure 0.1±0.01Mpa, Q=4.0L/Min (Q is flow rate, water efficiency level 3)
17	Life span	Dynamic pressure 0.4±0.02Mpa; Water flow≥0.1L/s; life span> 500,000 times
18	Max. installation load	20N*M
19	High-low temperature test	55±2°C test machine for 4 hours and then 2 hours at room temperature; -10±3°C test machine for 4 hours and then 2 hours at room temperature. Meet the sealing requirement and water flow rate variety ≤5%.
20	Water hammer action	< 0.2Mpa
21	Waterproof	IP34, IP67, IP67, IP67, IP67, IP67

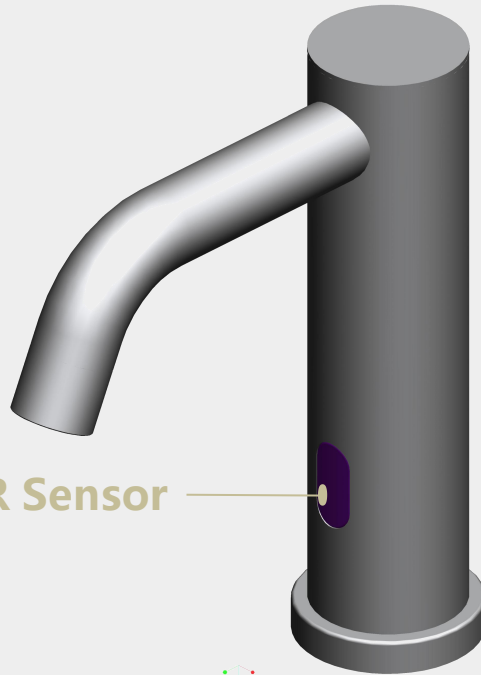


Package





Selling points



IR Sensor

Low power indicator

LED light on the sensor flashes when battery power is low to indicate battery replacement.



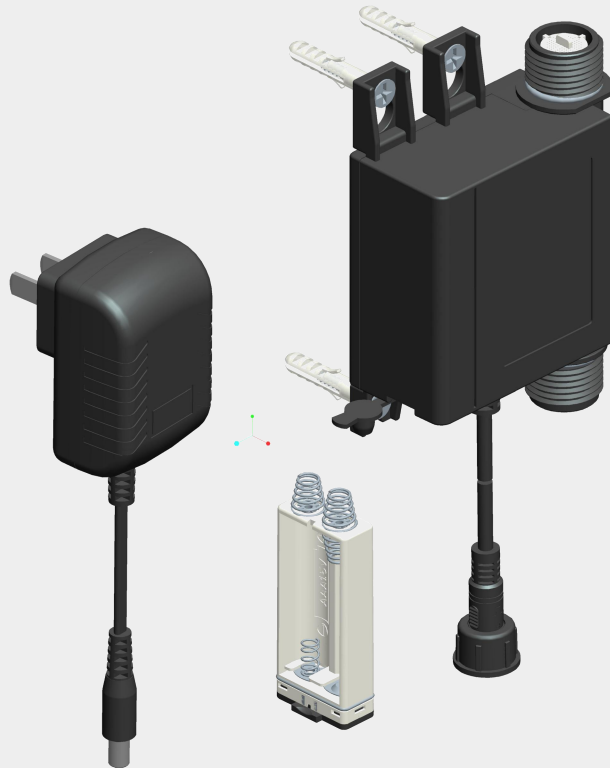
指示灯
闪烁

Water flows when hands enter the sensor range and water stops when hands leave

1. Intelligent sensor technology, touch free and automatic water on/off. Hygienic and convenient. Save more than 65% water.
2. Water-saving protection: Water stops automatic when water flows 60s continuously to avoid water wasting.



Selling points

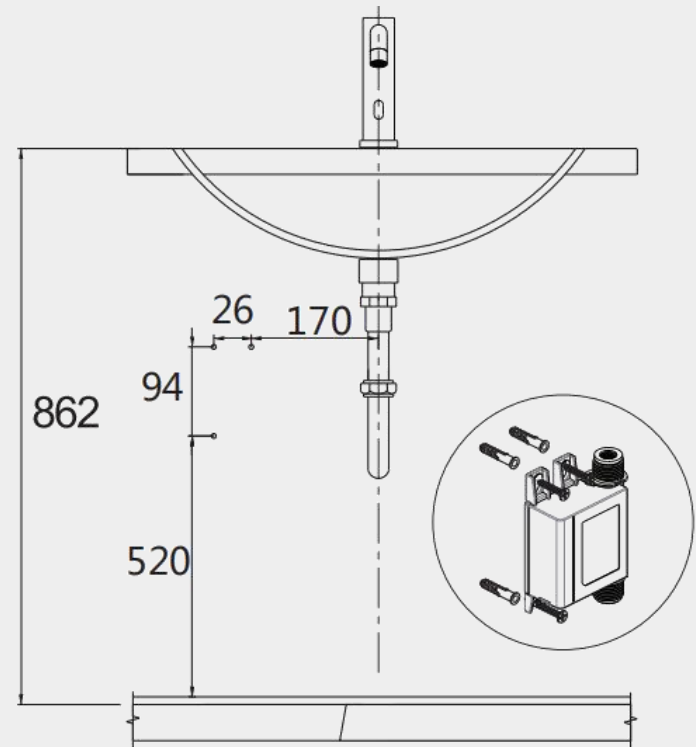


AC/DC power supply. Automatic shut off when no power supply

1. 110-240V adapter for AC power supply. 2 AAA alkaline batteries for DC power supply. Battery case is integrated to the control box.
2. Valve will be shut off when there is no power supply to avoid water wasting.

Easy for installation

Integrated design with G1/2 inlet/outlet. The control box can be installed according to the actual environment.



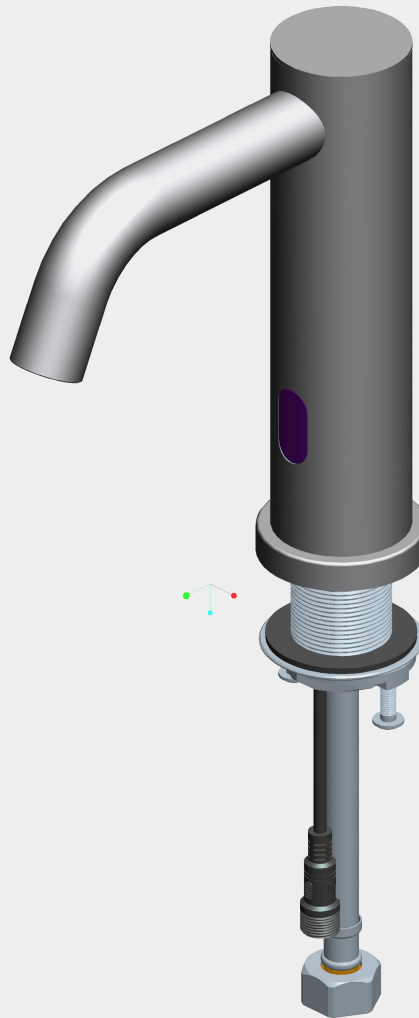
图B



Advantages

Anti-electromagnetic Interference

The faucets work as usual even if in strong electro-magnetic interference area.



Stainless steel

Stainless steel faucet body
Durable and with corrosion protection



使用寿命 Life span

Sensor: 500,000 times
Solenoid valve: 500,000 times



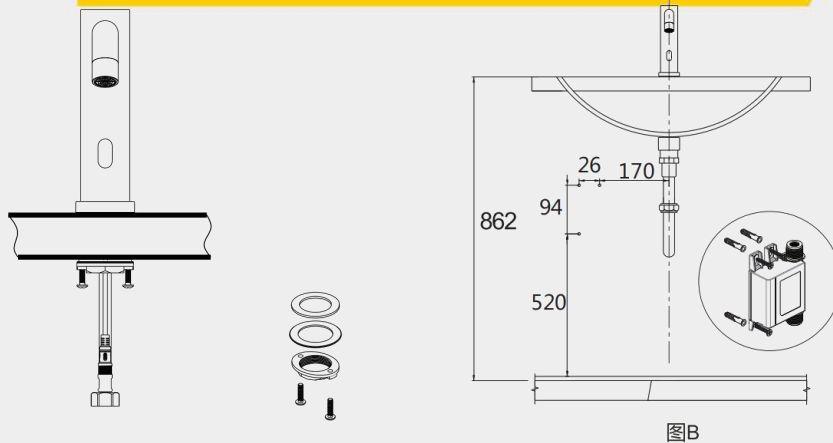
低功耗 Energy saving

100 times per day
10-12 months





Installation



图B

Step 1: Take out the faucet, remove the lock nut and two gaskets at the bottom of the faucet, and pass the sensor wire and the water inlet hose through the reserved hole of the basin. Lock the removed lock nut and two washers back to their original positions, and lock and fix the faucet;

Step 2: Find a suitable position according to the environmental position of the basin, and nail holes on the wall, and fix the bracket on the back of the control box to that position on the wall (Figure B);

Step 3: Connect and lock the water inlet hose on the faucet with the water outlet of the control box, as shown in Figure C-1;

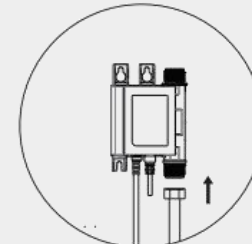
Step 3: Take another G1/2 hose (purchased by the customer) at two ends, one end is connected to the water inlet of the control box and locked (as shown in Figure C2), and the other end is connected to the outlet of the water inlet angle valve on the wall And lock it tightly (as shown in Figure C-3);

Note: If the angle valve in the customer's home is not G1/2, please choose the matching hose

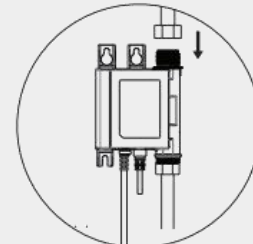
Step 4: According to the position in Figure B, drill three $\phi 7$ deep 35 holes, knock the expansion screws into the holes, and fix the control box on the wall with self-tapping screws (Figure C-4). Connect the four-core waterproof cable to the sensor cable and lock it tightly (as shown in Figure C-5);

Step 5: Plug the AC power adapter into the wall AC outlet, and connect the DC end to the DC connector of the control box (Figure C-6);

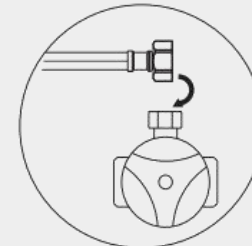
Note: There should be no gap after the connection line is connected to prevent water from entering; please pay attention to the positive and negative directions marked on the battery box when inserting the battery;



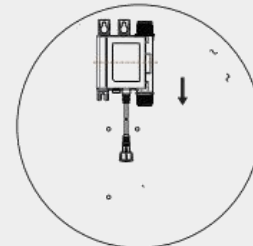
图C-1



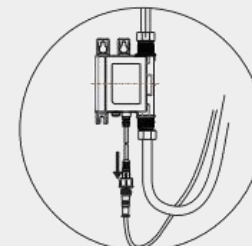
图C-2



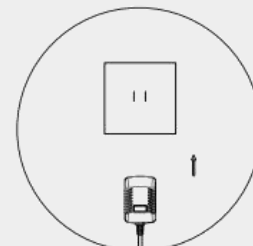
图C-3



图C-4



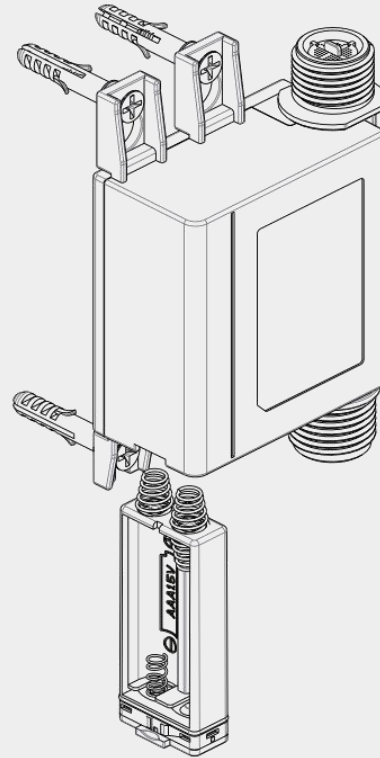
图C-5



图C-6



Batteries replacement



Battery Replacement

Note:

When the indicator light continuously and slowly double flashes alarm, please replace the battery1) Open the battery box cover of the control box and take out the battery box group;2) Take out the old battery and replace with 2 new AAA alkaline batteries;3) Check that it is correct, put the battery box back in place, and fasten the battery box cover.

Note:

The positive and negative polarity of the battery must be correct, and old and new batteries or batteries of different brands cannot be mixed.

When the battery is exhausted, the indicator light flashes, prompting to replace the batteries.



Trouble shooting

Phenomenon	Cause	Solutions
After induction, the indicator light does not flash, and there is no water	AC power failure	Check the circuit and wait for the power supply
	No battery, reverse battery installation, or poor battery contact	Install the battery, or reinstall the battery after correct polarity
	The signal cable plug is not connected properly	Reconnect the signal cable plug
The sensor keeps sensing, but does not emit water	Obstacles in the sensing range	Move obstacles away from the sensing area
	Sensing distance is too long, self-induction with basin	Use the dedicated remote control to shorten the distance
	The sensor window has stains or water stains	Wipe the sensor window with a soft cloth to clean
	Outside infrared rays exceed standard	Remove or avoid direct infrared rays from the outside world
The indicator light flashes continuously at a slow speed, and no water.	Low battery power	Replace a set of new batteries of the same brand
After induction, the indicator light flashes normally, but no water comes out	The water inlet valve or main water valve is not turned on	Open the water inlet valve or main water valve
The water does not stop	The solenoid valve is blocked	Clear the blockage in the valve
	The water pressure is too high	Adjust the water pressure to fit the factory specifications
Water flow is too small	The water inlet valve or main water valve is not fully opened	Open the water inlet valve or the main water valve to the maximum
	Filter is clogged	Clear the blockage on the filter
	The water pressure is too low or the water is cut off	Adjust the water pressure or turn on the water source

Note: If the failure exceeds the items listed above, please contact the technicians for repair as soon as possible



THANKS!