### Sensor Faucet Introduction



## Application















RJY-11-B201.1AD (White light)

RJY-11-B201.2AD ( Blue light )

RJY-11-B201.3AD (No temperature display and touch)

## Configuration





Dimension







### Dimension





## Technical parameters



| NO. | ltems                          | Parameters  |  |
|-----|--------------------------------|---|--|
| 01  | Power supply                   | DC 4.5-6.4V 4 AA alkaline batteries/AC110-240V adapterOutput: 5.0-6.5V/1A (Ripple<60mW)   |  |
| 02  | Static consumption             | ≦ 40 uA   |  |
| 03  | Sensor distance                | 1. Adjustable sensor range: 15-45CM<br>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 ℃  |  |
| 08  | Storage temperature            | - 40 ~ 80 °C  |  |
| 09  | Relative humidity              | 10 % - 95 %   |  |
| 10  | LED flashing                   | <ol> <li>LED light flashes 5 times when power-on</li> <li>LED light flashes once when obstacles detected</li> <li>LED light flashes for 10s with 0.5 each time when it is low power 2.4±0.1V</li> </ol>   |  |
| 11  | Program                        | Water flows when obstacles detected; water stops when obstacles leave.  |  |
| 12  | Stability<br>Anti-interference | 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  |                                | No malfunctions when same models installed at 50cm interval working at the same time<br>No malfunctions when working with 1kw hair drier at and light 40w electronic ballast fluorescent lamp when with<br>one AC socket and when at 2cm with batteries power supply. |  |
|     |                                | Sensor distance variety no more than $\pm 10\%$ 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 $0.1\pm0.01$ Mpa, 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  | Water-proof                    | Batteny case: IP21 Potting sensor: IP67 Solenoid valve: IP67  |  |







## Selling point





#### Low power indicator

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



### 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.





#### **Multi-function**

Rich functions to meet the diverse needs of different consumers



## Selling point



#### **Easy for installation**

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



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

- 1. 110-240V adapter for AC power supply. 4 AA alkaline batteries for DC power supply.
- 2. Valve will be shut off when there is no power supply to avoid water wasting.



### **Advantages**

#### Anti-electromagnetic Interference

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





③Semi-product ②Rough polishing ⑥Glossy nickel plating ③Refined polishing ⑦Chroming Hand-made polishing



使用寿命 Ŷ

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







Made of Refined Brass

100 times per day 8-10 months

低功耗

4

### Installation







Step 1: Take out the faucet and remove the rubber gasket, stainless steel gasket and lock nut on the faucet. Take out the hot and cold water inlet pipes and install them on the faucet in turn (the hot-red braided tube in the front, and the cold-blue braided tube in the back position). Pass the cold and hot water inlet pipes of the faucet and the four-core waterproof cable through the basin hole; finally, sequentially lock the rubber gasket, stainless steel gasket and lock nut from the bottom of the basin to the faucet, and then lock the faucet tightly. (As shown in Figure A)

Step 2: Choose a space under the basin, drill two holes with a diameter of  $\varphi$ 7mm and a depth of 30mm, then knock the expansion rubber particles into the holes, and lock the battery box bracket to the wall.

Step 3: Take out and install the two check valve joints on the water outlet on the cold and hot angle valves (as shown in Figure C-1 and C-2), and then connect the braided pipes to the check valve joints.

Step 4: Plug the AC power adapter into the wall AC socket, and connect the DC end to DC connector of the control box (as shown in Figure C-5 and 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-5



花色編织管

图C-4



图C-6

## Battery replacement





Step 1: Remove the battery box and remove the battery box cover Step 2: Take out the old battery, replace it with new AA batteries, and reinstall it as it is after checking.

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  |
|---|---|--|
|   | AC power failure  | Check the circuit and wait for the power supply                      |
| After induction, the indicator light does not flash, and there is no water          | 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                                      |
|   | 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 keeps sensing, but does not emit water                                   | 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<br>light flashes normally, but no<br>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 sector descent stars  | The solenoid valve is blocked                                     | Clear the blockage in the valve                                      |
| The water does not stop   | The water pressure is too high                                    | Adjust the water pressure to fit the factory specifications          |
|   | 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    |
| Water flow is too small   | 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!**

