

YF-S401

Liquid Flow Sensor



product description-----

The water flow sensor is mainly composed of a plastic valve body, a water flow rotor assembly and a Hall sensor.

It is installed at the water inlet end of the water heater to detect the influent flow rate as it passes through the water flow rotor assembly.

The magnetic rotor rotates and the rotational speed changes with the flow rate, and the Hall sensor outputs a corresponding pulse.

The signal is fed back to the controller, and the controller determines the magnitude of the water flow and performs regulation.

Precautions for use:

- Severe impact and chemical attack are strictly prohibited.
- It is strictly forbidden to throw or collide.
- The medium temperature should not exceed 120 degrees

Output waveform: square wave

Lead line mode:

1 red IN is connected to the positive pole

2 yellow OUT signal output line

3 black GND connected to the negative

4 Green R temperature sensing (3950K 50K or 3950K, please choose according to your own requirements)

Frequency: $F=5.5*Q(L/Min)-3$ Error: $\pm 2\%$ Voltage: 3.5-24VDC, current can't exceed 10mA, output 330 pulses after one liter of water

That is, frequency calculation = constant 5.5 * unit flow rate (L / min) * time (seconds) -3

Features-----

1. This product is light and flexible in appearance, small in size and easy to install.
2. The inside of the impeller is inlaid with a stainless steel shaft, and the upper and lower penetrating and dispersing points are always wear-resistant.
3. The sealing ring is made of Japanese imported nitrile rubber, and the structure of the upper and lower forces will never leak.
4. The Hall element is imported and encapsulated with potting glue to prevent water from entering and never aging.

5, all raw materials have met ROHS testing standards

Product parameters-----

Scope of application:		Suitable for water heaters, credit card machines, automatic water vending machines, and other flow metering equipment!
base this Reference number	1, the lowest rated working voltage	DC3.5 5V-12V
	2, the maximum working current	15 mA (DC 5V)
	3, the working voltage range	DC 5~18 V
	4, load capacity	≤ 10 mA (DC 5V)
	5, the use of temperature range	$\leq 80^{\circ}\text{C}$
	6, the use of humidity range	35% to 90% RH (no frosting)
	7, allow pressure	Water pressure below 1.75Mpa
	8, save the temperature	-25~+ 80°C
	9, save humidity	25% to 95% RH