

## Description

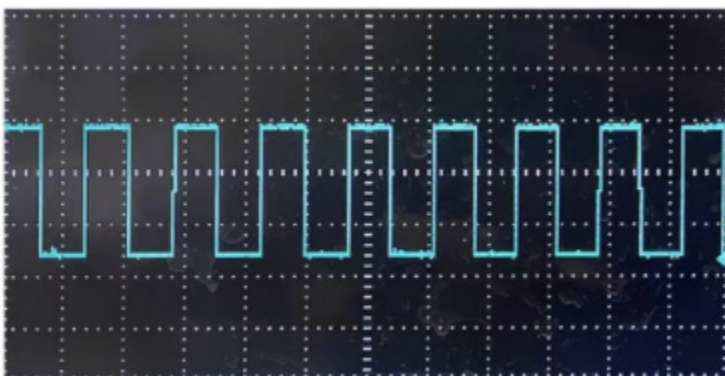
The water flow sensor is mainly composed of a plastic valve body, a water flow rotor assembly and a Hall sensor, which is installed in the water inlet end of the water heater for detecting the water flow, when the water passes through the water flow rotor assembly, the magnetic rotor rotates and the speed changes with the flow, the Hall sensor outputs the corresponding pulse signal, feeds back to the controller, and the controller determines the size of the water flow for regulation



## Specifications

Output signal	Default output NPN pulse signal
Thead size	4 points (G1/2)
Operating voltage range	DC5~18V
Inside/outside diameter	Inner diameter inlet 13.3mm Outlet 14.5mm/ Outer diameter 20.1mm
Screw length	12.7mm
Material	Clear PC, black nylon
Water pressure resistance	<1.75MPa
Output pulse high level	>DC4.7V(Input voltage DC 5V)
Output pulse low level	<DC0.5V(Input voltage DC5V)
Insulation resistance	>100MQ
Flow range	(in 1~25L/MIN) 3%
leakproofness	Seal each hole, no leakage and safety check for 1 minute
Flow pulse characteristic	(Hz)=[5.0* Q]±5%(Q-- flow L/min)

## Output waveform diagram



## Product Highlights

This product is light and convenient in appearance, small in size and easy to install

The inside of the impeller is inlaid with stainless steel beads to prevent wear

Line and water isolation design

Hall components are imported and the valve body is transparent for better observation of water flow and rotor conditions

## Connection mode

Red:

IN is connected to the positive terminal

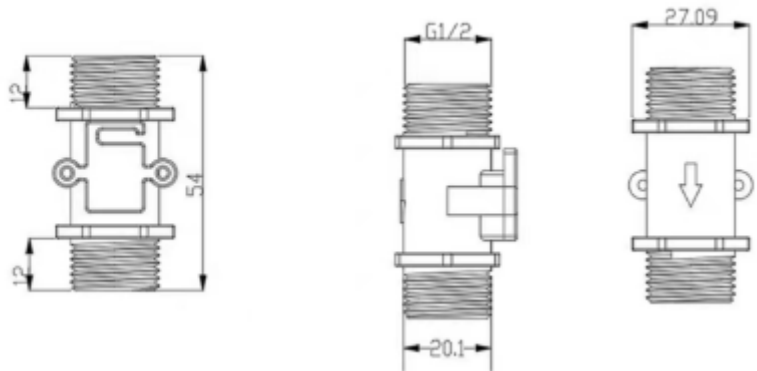
Yellow: indicates the OUT signal output line

Black: connects the negative terminal GND

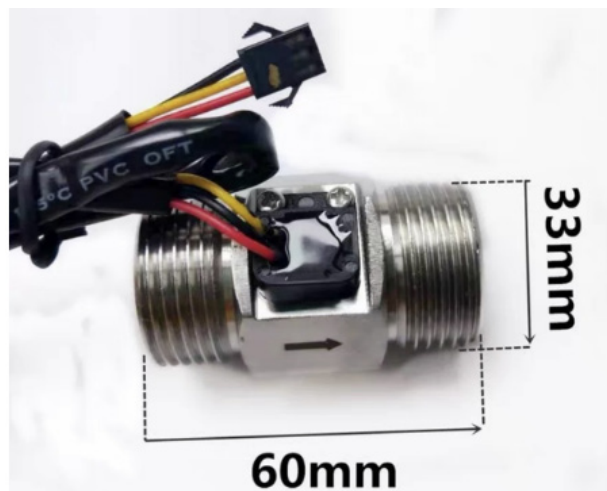
Application: It is suitable for water heater, card machine, automatic water dispenser

## Dimensions

4 points (G1/2)



6 points (G3/4) 1 inch



## Notes

Violent impact and chemical erosion are strictly prohibited

Throwing or bumping is strictly prohibited

The medium temperature should not exceed 100 degrees

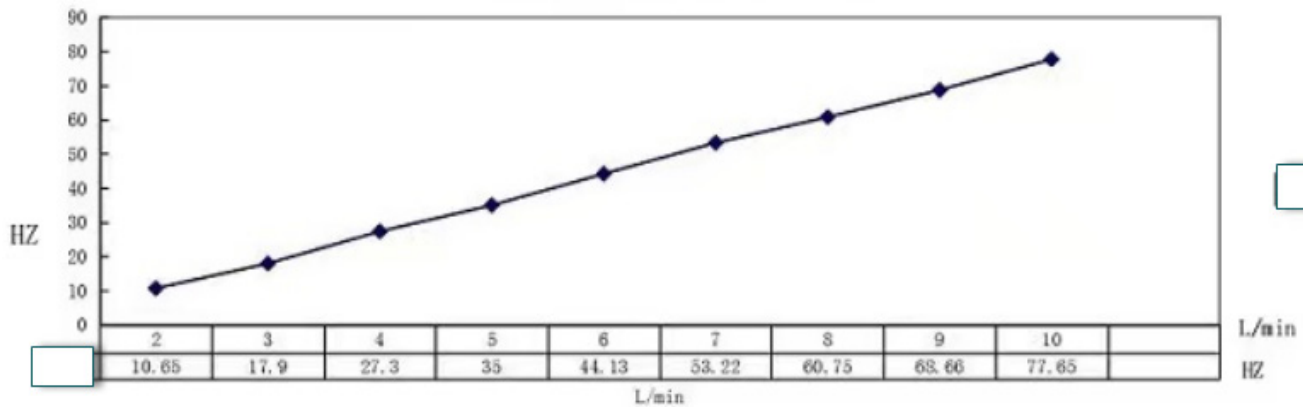
The operating current shall not exceed 10mA

If the water quality is too poor, please add a filter at the inlet end

Do not use beyond the flow range

Thread size	6 points (G3/4) 1 inch
Operating voltage range	DC5~18V
Interface connection mode	Medium 35*60/45mm long, G3/4 outer teeth into water, G3/4 outer teeth out
Use medium/temperature	Water, tap water standard, long-term use temperature is not more than 60°C
Traffic range/Start traffic	2-45L/min, 1L/min start, 2-45L/min flow characteristics and pulse frequency in line proportional output
Water pressure resistance	There is no water leakage under the 1.75MPa water pressure, and the parts have no abnormal phenomena such as cracks, relaxation, expansion and deformation
Maximum working current	15mA
Output pulse high level	At the rated 5V operating voltage, the high level of the output is required to be above 4.5V
Output pulse low level	At the rated 5V operating voltage, the output low level is required to be below 0.5V
Output pulse duty cycle	At the rated operating voltage, the output pulse duty cycle is 50% to 10%
Instantaneous flow pulse characteristics	$F=[8.1Q-5]$ soil 10%, F is instantaneous pulse value (HZ), Q is instantaneous flow rate (L/min)
Insulation property	Insulation resistance >100MΩ
Heat resistance (80°C)	After 72 hours at 80 ° C, the accuracy of the measurement at ambient temperature for 1 hour is required at 10%
Cold resistance (-20°C)	After 72 hours at -20 ° C, the accuracy of the measurement at ambient temperature for 1 hour is required at 10%
Connection mode	Red: positive, black: negative, yellow: pulse signal,
Cumulative flow pulse conversion ratio :1L water =477pulse 10%	

Frequency-flow curve table



Instructions for use :

1. In order to avoid particles and debris entering the sensor, a filter must be installed at the water inlet of the sensor .
2. when the magnetic material or the material that generates magnetic force to the sensor is close to the sensor, its characteristics may change.
3. the installation of the water flow sensor must avoid the vibration and shaking environment and application, so as not to affect the measurement accuracy of the sensor.
4. Please do not disassemble the water flow sensor without authorization to prevent damage, and the water flow sensor that has been disassembled without authorization is not covered by the warranty.
5. have not used this structure type sensor, used for direct replacement may be inappropriate, please promptly put forward.