## YF-G1 Flow sensor

## Product features:

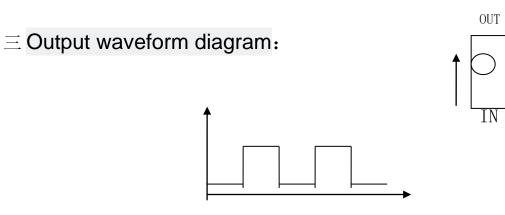
- 1. Appearance of the productLightweight flexible, Small volume, Convenient installation.
- 2. inside impellerset Stainless steel bead, forever wear-resisting.
- 3. Seal ring using Up and down Structure of force never leaking.
- 4. Hall element using German imports, and using The isolation designTo prevent water, never aging.
- 5. All raw materials Comply with ROHS testing standard



## - Product introduction:

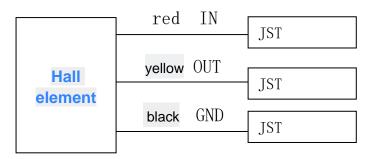
The water flow sensor is mainly composed of plastic valve body, water flow rotor component and hall sensor. It is installed in the water heater inlet, used to detect water flow, when the water through flow rotor components, magnetic rotor rotation and speed changes with the flow, hall sensor output pulse signal, feedback to the controller, the controller to judge the size of the water flow, adjust and control.

- Matters needing attention
- Severe shock and chemical erosion are strictly prohibited.
- It is strictly prohibited to throw or collide.
- Strictly follow the product to the water direction, connect the water pipe.
- Liquid temperature should not exceed 120 C.



Duty Cy=40%~60%

四、 Connection mode:



Installation direction diagram

Scope of application:		适用于全自动燃气热水器
The basic parameters	1 Minimum rated	DC 5V-24V
	working voltage	
	2 Naximum	15 mA (DC 5V)
	working current	
	3 🔪 Maximum	DC 5~18 V
	working current	
	4、Load capacity	≤10 mA (DC 5V)
	5 、 Temperature	≤80°C
	range	
	6 、 Temperature	35%~90%RH (No Frosting state)
	range	
	7 、 Allow the	hydraulic pressure 1.75Mpa below
	pressure	
	8 、Keep the	-25∼+80°C
	temperature	
	9 Save the	25%~95%RH
	humidity	
	1、The output pulse	>DC 4.5 V (Input voltage DC 5 V)
	is high	
	2、The output pulse	<dc (input="" 0.5="" 5="" dc="" td="" v="" v)<="" voltage=""></dc>
	is low	
	3 accuracy	
Technical requiremen ts	(Flow ratePulse	1~100 L/min±5%
	output)	
	4、The output pulse	50±10%
	Duty ratio	
	5、output Rise time	0.04µS
	6、output Fall time	0.18µS
	7、Flow rate-Pulse	Horizontal test pulse frequency (Hz)= $[1 * Q] + + / -3\%$ (level test) (Q is
	characteristics	flow L/min)
	8 、 Impact	The product packaging is good, from 50cm height X, Y and Z free fall to
	resistance	the concrete surface without exception,
		Within 5% of accuracy change.
	9 、 Insulation	Hall concer and inculation registeres between some between the base 100
	resistance	Hall sensor and insulation resistance between copper body above 100 m
	1001010100	$\Omega$ .(DC 500 v)
	10, Heat resistance	In the 80 + 3 °C environment for 48 h, return to room temperature for 1 to 2
		h without exception, no crack, relaxation and parts, expansion and
		deformation phenomenon, change within 10% accuracy.

		In the - 20 + / - 3 °C environment for 48 h, return to room temperature for 1
11	Cold resistance	to 2 h without exception, no crack, relaxation and parts, expansion and
		deformation phenomenon, change within 10% accuracy.
12	、 Humidity	In 40 + 2 °C, relative humidity 90% ~ 95% RH environment put out 72 h
res	sistance	after more than 1 m $\Omega$ insulation resistance.
13	Tensile strength	The tension of 1 minute 10N is applied on the derivation line, no
		looseness and dissonation, and no change in performance.
14	<ul> <li>Durability</li> </ul>	At normal temperature, the water pressure of 0.1MPa from the intake inlet
		is connected to the 1S, and the 0.5S is disconnected.
		The test was no abnormal for 300,000 times.