

YF-S201 black flow sensor

product features:

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

impeller is inlaid with stainless steel beads, which is always wear-resistant. The

seal adopts the upper and lower force structure to never leak water. The

Hall element uses Imported from the United States, the circuit is isolated

from the water to prevent water ingress and never age.

All raw materials are in compliance with ROHS testing standards





Product introduction: The

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

It is installed on the water inlet end of the water heater and is used to detect the water flow rate. When water passes through the water flow rotor assembly, the magnetic rotor rotates and the speed changes with the flow rate change. The Hall sensor outputs a corresponding pulse signal and feeds it back to the controller. The device determines the size of the water flow and regulates it.

Cautions on use are

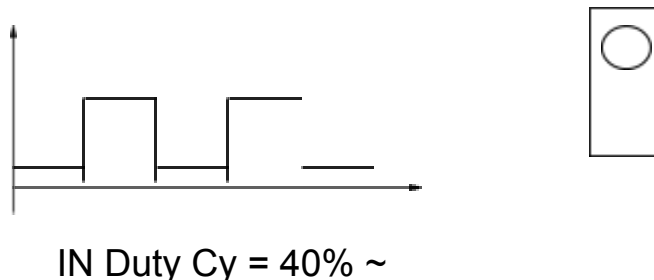
strictly prohibited.

Do not throw or bump. The installation direction diagram is

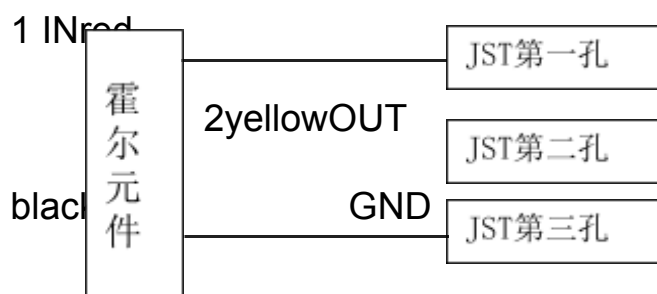
vertical installation, the inclination does not exceed 5 degrees. OUT

medium temperature should not exceed 120°C.

theThird,outputwaveform:



four lead:



V. Technical

parameters:apply		to automatic gas water heater
g r o u p t h i s p a r a m e t e r,	1 the minimum Rated working voltage	DC 5V-24V
	2. Maximum working current	15 mA (DC 5V)
	3. Operating voltage range	DC 5 to 18 V
	4. Load capacity	≤ 10 mA (DC 5V)
	5. Operating temperature range	≤ 80 ° C
	6. Use humidity range of	35% ~ 90% RH (or frost)
	7,allows pressure	or less1.75Mpa pressure
	8storage temperature	-25 ~ + 80 ° C
	9, storage humidity	25% ~ 95% RH
t e c h n i c a l r e q u i r	1, Output pulse high level	> DC 4.5 V (input voltage DC 5 V)
	2. Output pulse low level	<DC 0.5 V (input voltage DC 5 V)
	3. Accuracy (flow rate-pulse output)	1 ~ 30 L / min±Within5%
	4. Output pulse duty cycle	50 ± 10%
	5. Output rise time	0.04μS
	6. Output fall time	0.18μS
	7. Flow rate-pulse characteristic	level test pulse frequency (Hz) = [7.5 Q] ± 3% (Level test) (Q is the flow rate L / min)
	8. The impact-resistant	product is well packaged, and it drops freely from the height of 50cm in the X, Y, and Z directions to the concrete surface, and the accuracy changes within 5%.
	9, insulation resistance	Hall sensor and copper valve body insulation resistance above 100MΩ. (DC 500V)
	10, heat resistance	in the environment of 80 ± 3 ° C for 48 hours, returned to normal temperature for 1-2 hours without abnormalities, and parts without cracks, slack, expansion, deformation and other phenomena, the accuracy change within 10%.

e m e n t s	11. Cold resistance	: Put it in the environment of -20 ± 3 °C for 48h, return to normal temperature for 1-2h without abnormality, and the parts are free from cracks, slackness, swelling, deformation and other phenomena, and the accuracy changes within 10%.
	12. Moisture resistance	After leaving for 72 hours in an environment with 40 ± 2 °C and relative humidity 90% ~ 95% RH, the insulation resistance is above 1MΩ.
	13.strength:	PullingA 10N pulling force is applied to the lead-out wire for 1 minute, no loosening or breaking, and no change in performance.
	14. Durability	At normal temperature, 0.1 MPa water pressure is passed from the water inlet to turn on 1S and turn off 0.5S as a cycle. The test is 300,000 times without abnormality.