

Water flow sensor

Model:YF-S201



specifications:

Product appearance	Conform to the design	The external dimensions and indicated contents are consistent with the approved drawings and technical documents approved by the procedures. The installation is well coordinated and has a permanent flow direction sign
		There are no obvious cracks, bumps, burrs and deformations on the surface
Distribution mechanical strength	$\geq 30N$ / Arbitrary direction	Pull the wiring with a tension gauge, give the force 1min/30N force, There must be no looseness in the Wiring.
Flow characteristics	$F = (7.5 * Q)$ error $\leq 2\%$	2 to 12L/min water flow is applied at the inlet of the water flow sensor, and its output frequency characteristics should meet the standard requirements, formula F is Hz, Q is L/min.
High level	$\geq 4.6V$	The water flow sensor is connected with the 5V power supply, and is directly measured by the oscilloscope through the 8L/min water flow. The water flow sensor can be artificially placed at the high level and tested with a multimeter voltage profile
Low level	$\leq 0.5V$	
Electrical strength	1250V/min	In the case with any lead wire, the experimental voltage is 1250V, the setting current is 8mA, the experimental time is 1min, no breakdown, no flashover.
Insulation resistance	$\geq 100M\Omega$	In 500V/ measuring insulation resistance.
Output duty cycle	50% \pm 10%	The flow sensor is connected to the 5V power source and is directly measured by an oscilloscope using the 8L/min current
low temperature	Flow characteristics, output waveform should meet the technical requirements	1) place the sample in -20 $^{\circ}C$ constant temperature box 2h, remove and stay 1h. 2) place the sample in -90 $^{\circ}C$ constant temperature box 2h, remove and stay 1h. 3) and then put the sample in the -20 $^{\circ}C$ constant temperature box 0.5h, put in -90 $^{\circ}C$ constant temperature box 0.5h., repeat third 5 cycle inspection
high temperature		
thermal shock		
damp		
Water pressure test	$\leq 1.75Mpa$	Stop the water flow sensor plug, applied pressure is less than or equal to 1.75MPa at the other end, the flow sensor without any leakage.

external thread G1/2

Size (mm)

