

## Water Flow sensor

Water flow sensor consists of a plastic valve body, a water rotor, and a hall-effect sensor.

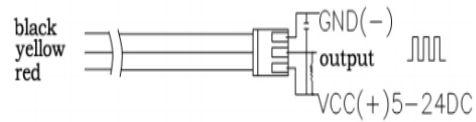
When water flows through the rotor, rotor rolls. Its speed changes with different rate of flow. The hall-effect sensor outputs the corresponding pulse signal.



### Specification

Working voltage	5V-24V
Maximum current	15 mA (DC 5V)
Weight	43 g
External diameters (Inflow and outflow)	20mm
Flow rate range	0.5~60 L/min
Operating temperature	0°C~80°C
Operating humidity	35%~90%RH
Operating pressure	under 1.75Mpa
Store temperature	-25°C~+80°C

### Wiring diagram



The external diameter of thread the connections use is 1.4mm.

## Output Table

Pulse frequency (Hz) in Horizontal Test=  $7.5Q$ ,  $Q$  is flow rate in L/min. (Results in +/- 3% range)

Output pulse high level	Signal voltage >4.5 V( input DC 5 V)
Output pulse low level	Signal voltage <0.5V( input DC 5V)
Precision	3% (Flow rate from 1L/min to 10L/min)
Output signal duty cycle	40%~60%

### Revision History

Rev.	Descriptions	Release date
2.0	public release 2.0	31.05.2010