

TURBINE FLOW METER

WATER FLOW SENSOR

BRASS COPPER SENSOR

Water flow sensor consists of a brass copper 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. It is suitable to detect flow in water/chemical/industrial machines, irrigation system, liquid filling machine.

- *Compact, Easy to Install*
- *High Sealing Performance*
- *High Quality Hall Effect Sensor*
- *RoHS CE REACH ISO Compliant*



Technical Parameter:

The water flow sensor is a device used to sense the water flow rate in a tank. There is a Hall element in the flow sensor. When liquid flows by the sensor, it drives the Hall element inside the sensor to rotate. By calculating the rotate speed of the element, the water flow sensor can give a precise outcome of the water flow rate passed by the pipe.

TECHNICAL PARAMETER

PRODUCT NAME	TURBINE FLOW METER
Material	BRASS
Pipe Connection	DN 6/15/20/25/32/80
Output Signal	NPN Pulse
Operating Voltage	3.5 – 24 VDC
Max Working Current	< 15mA
Flow Range	0.3-500 L/min
Output Pulse High Level	>4.7 VDC (input 5 VDC)
Output Pulse Low Level	<0.5 VDC (input 5 VDC)
Max Pressure	<1.75 MPa
Accuracy	3 %
Connector & Cable Length	PVC Cable – 3P 50m
Working Temperature	-20_80 °c
Medium	water / hot water / pure water
Medium Temperature	< 120 °c

Flow Range:

Model No.	Pipe Connection	Connection Thread	Valve Length	Flow Range L/min	K Factor / Frequency	1L water = ? pulse
YF-B0	G1/4" (DN6)	Male-Male	62mm	0.35-3	F=108×Q	6500
YF-B1	G1/2" (DN15)	Male-Male	44 mm	1-25	F=11×Q	660
YF-B2	G1/2" (DN15)	Male-Female	50 mm	1-25	F=11×Q	660
YF-B3	G1/2" (DN15)	Male-Male	66 mm	1-25	F=11×Q	660
YF-B4	G1/2" (DN15)	Male- Female	66 mm	1-25	F=11×Q	660
YF-B5	G3/4" (DN20)	Male-Male	50 mm	1-30	F=6.6×Q	396
YF-B6	G3/4" (DN20)	Male-Male	60 mm	1-30	F=6.6×Q	396
YF-B6-T	G3/4" (DN20)	Male-Male	66 mm	1-40	F=6.6×Q	396
YF-B7	G1/2" (DN15)	Male-Male	66 mm	1-25	F=11×Q	660
YF-B8	1/2" (DN15)	Female-Male	66 mm	1-30	F=6.6×Q	396
YF-B9	3/4" (DN20)	Female-Female	58 mm	2-50	F=8×Q-4	476
YF-B10	G1" (DN25)	Male-Male	58 mm	2-50	F=8×Q-4	476
YF-DN32-T	G1 ¹ / ₄ " (DN32)	Male-Male	64 mm	3-60	F=1.8×Q	108
YF-DN80	G3" (DN80)	Male-Male	75mm	20-500L	F=0.5×Q	30

Wire Connection:

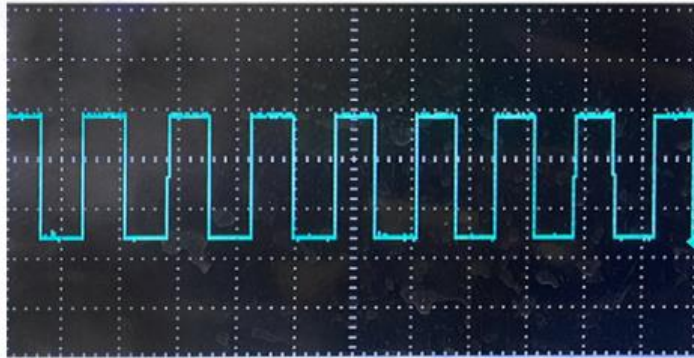
RED - IN (+)

YELLOW - OUTPUT signal

BLACK - GND (-)



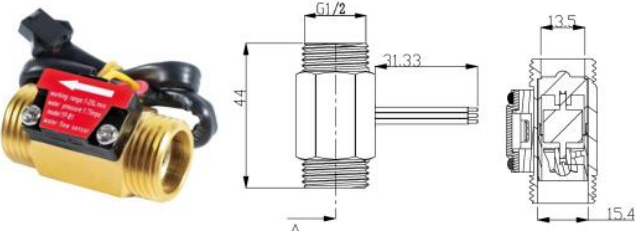
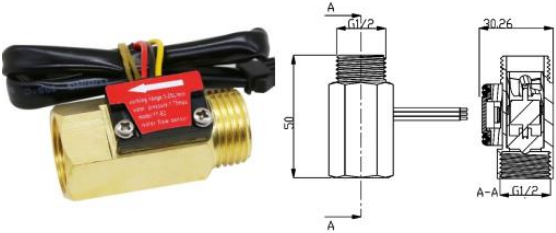
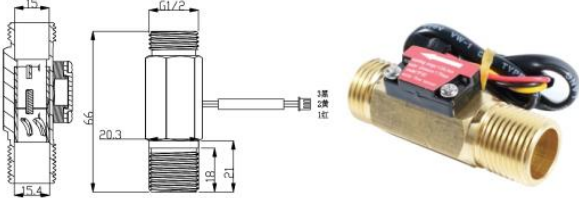
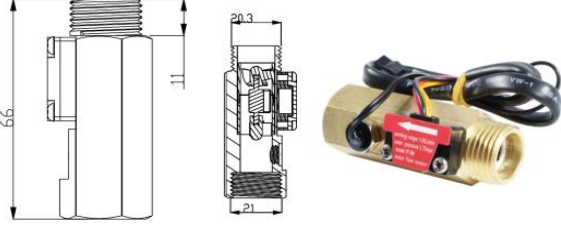
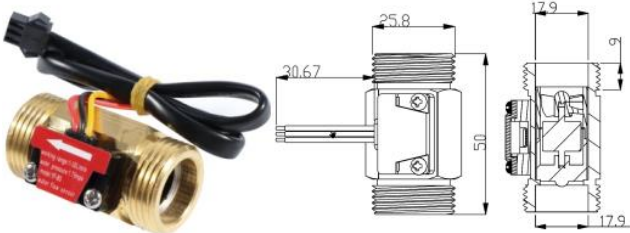
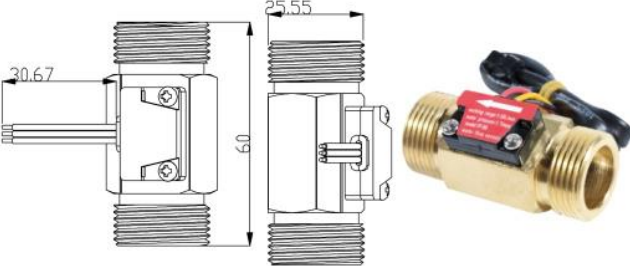
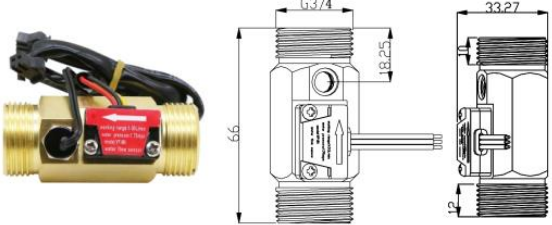
Output Square Wave:



Considerations:

- 1. In order to prevent particles and debris entering into the sensor, a filter must be installed at the water inlet of the sensor.*
- 2. The water flow sensor is suitable for installation indoors or inside the equipment, and it must not be exposed to harsh environments such as outdoors or humidity and high temperature for a long time. The installation of the water flow sensor must avoid the environment and application of vibration and shaking, so as not to affect the measurement accuracy.*
- 3. When magnetic material is placed close to the sensor, its characteristics may change.*

Dimension:

<p>YF-B1</p>		<p>ModelNo.: YF-B1 Inlet&OutletDiameter: G1/2 Flowrange: 1-25L/min PulseFrequency: F=11*Q OperatingVoltage: DC3.5-24V WaterPressure: ≤1.75MPA</p>
<p>YF-B2</p>		<p>ModelNo.: YF-B2 Inlet&OutletDiameter: G1/2 Flowrange: 1-25L/min PulseFrequency: F=11*Q OperatingVoltage: DC3.5-24V WaterPressure: ≤1.75MPA</p>
<p>YF-B3</p>		<p>ModelNo.: YF-B3 Inlet&OutletDiameter: G1/2 Flowrange: 1-25L/min PulseFrequency: F=11*Q OperatingVoltage: DC3.5-24V WaterPressure: ≤1.75MPA</p>
<p>YF-B4</p>		<p>ModelNo.: YF-B4 Inlet&OutletDiameter: G1/2 Flowrange: 1-25L/min PulseFrequency: F=11*Q OperatingVoltage: DC3.5-24V WaterPressure: ≤1.75MPA</p>
<p>YF-B5</p>		<p>ModelNo.: YF-B5 Inlet&OutletDiameter: G3/4 Flowrange: 1-30L/min PulseFrequency: F=6.6*Q OperatingVoltage: DC3.5-24V WaterPressure: ≤1.75MPA</p>
<p>YF-B6</p>		<p>ModelNo.: YF-B6 Inlet&OutletDiameter: G3/4 Flowrange: 1-30L/min PulseFrequency: F=6.6*Q OperatingVoltage: DC3.5-24V WaterPressure: ≤1.75MPA</p>
<p>YF-B6-T</p>		<p>ModelNo.: YF-B6(temperatureprobe) Inlet&OutletDiameter: G3/4 Flowrange: 1-40L/min PulseFrequency: F=6.6*Q OperatingVoltage: DC3.5-24V WaterPressure: ≤1.75MPA</p>

Application:

The water flow sensor can be used to monitor liquid flow rate in water machine, water heater, coffee machine, vending machine, water meter, medical testing machine and the like. They are widely applied in industrial equipment ,agricultural equipment and household electrical appliances in the future.



Water Heater



Water Dispenser



Coffee Machine



Medical Testing Machine



Vending Machine



Water Meter



WATER HEATER



WATER DISPENSER



VERNDING MACHINE



IC CARD WATER SYSTEM