

## High Precision PVC Water Flow Sensor YF-S401



Water flow sensor consists of a PVC 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. This one is suitable to detect flow in water dispenser or coffee machine.

### Features

- Compact, Easy to Install
- High Sealing Performance
- High Quality Hall Effect Sensor
- RoHS Compliant

### Specifications

- Mini. Working Voltage: DC 4.5V
- Max. Working Current: 15mA (DC 5V)
- Working Voltage: DC 5V~24V
- Water resistant 0.35MPa
- Flow Rate Range: 1~ 5L/min
- Load Capacity:  $\leq 10\text{mA}$  (DC 5V)
- Operating Temperature:  $\leq 80^{\circ}\text{C}$
- Liquid Temperature:  $\leq 120^{\circ}\text{C}$
- Operating Humidity: 35% ~90%RH
- Water Pressure:  $\leq 1.75\text{MPa}$
- Storage Temperature:  $-25 \sim + 80^{\circ}\text{C}$
- Storage Humidity: 25% ~95%RH
- Internal diameter: 1.2mm;
- Error:  $\pm 2\text{L}/\text{min}$ ;
- Insulation resistance  $> 100\text{M}\Omega$
- Output pulse duty cycle  $50\% \pm 10\%$
- Output pulse high level  $> \text{DC } 4.7\text{V}$  (input voltage DC 5V)
- Flow pulse characteristics  $F = (98 * Q) \pm 2\%$   $Q = \text{L} / \text{MIN}$

## **Other Features**

- Light weight, small, easy to install;
- With stainless steel axis in the wheel, abrasion resistant;
- Sealing ring would never leak water;
- All material meets RoHS standard

## **Application**

- Suitable for water heater, automatic water dispenser, coffee machine etc.

## **Caution**

- Non-violent shocks and chemical erosion.
- Non-throwing or collision.
- Install it in vertical, inclination should not beyond 5 degree;
- Medium temperature should not exceed 120°C.
- Frequency:  $F = 98 * Q$  (L / Min) Error:  $\pm 2\%$  ,voltage :3.5-24VDC, current can not exceed 10mA,

## **Connector Details**

- Red : IN positive
- Yellow : OUT signal output
- Black : GND negative

## **Dimensions / Weight**

- Dimensions : 2.28 in x 1.38 in x 1.06 in (5.8 cm x 3.5 cm x 2.7 cm)
- Weight : 0.88 oz (25 g)