

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: $\pm 2\text{L/min}$;
- 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)