

# Water Flow Sensor

(AWF – A50)



## FEATURES

- This sensor has excellent character in low pressure.
- The out put pulse frequency has linear character in flux change.
- This sensor has a half-permanent life by high sensitivity semiconductor sensor.

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## APPLICATION

This sensor is used in water flow sensing.

This sensor has application to Wall gas boiler and instantaneous warm-water appliance, and water filtering appliance.

## SPECIFICATIONS

Type	: Turbine type with Hall sensor	
Working pressure	: less than 10 kgf / cm <sup>2</sup>	
Withstand pressure	: 10.0 kgf/cm <sup>2</sup>	
Ambient humidity	: Room humidity (40 ~ 60%)	
Permissible fluid temperature (According to any situations, it is possible to change a little bit.)	: 0 ~ 60 °C (It shall not be frozen)	
Material	: Body	NY66(G/F 30%)
	: Rotor	POM
	: Magnet	Ba – Ferrite
	: Stop ring	SUS304

# SPECIFICATIONS

Efficiency	Fluid	: Water	
	Measuring range	: 2.0 ~ 30 ℓ / min	
Flow rate – pulse	Formula $F(\text{Hz})=5.7Q(\ell / \text{min})$		Accuracy F.S ± 5%
Electrical rating	: DC 2.7V ~24V , 5mA		
Duty cycle	: 30 ~ 70%		
Insulation resistance	: Not less than 100 MΩ (Between the connector and body)		
Dielectric strength	: When AC 600V(50/60 Hz) is added between the connector and body, detecting current is under 3 mA.		
Pipe Connection	: PF 1/2"(15A)		
Installation (There should be no air bubbles in the internal water flow.)	Recommended		Not recommended
	Weight		
			50A : 49.7g 60A : 52.3g

## DIMENSIONS

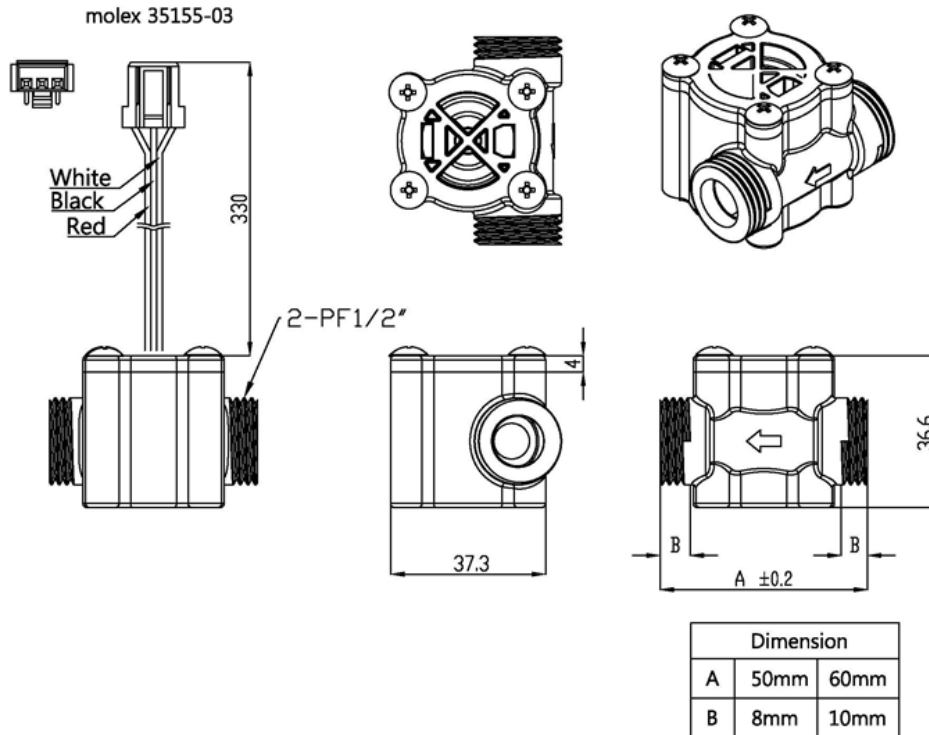


FIG 1. water flow sensor

The specifications and dimensions can be changed without warning

- NOTE -

- Ensure there is no foreign substance.
- Ensure that there is no fast-pulsatory movement of the media
- Ensure that there are no reverse pressure surges
- Ensure that there is no air in the system
- Note the mounting position of the flowmeter
- Min/max flow should be in the linear range of the selected flowmeter
- Clean the system at appropriate intervals
- Avoid electrical current peaks
- Incorrect cabling of power supply +, signal and ground will destroy the flowmeter
- Do not mechanically load electrical contacts
- Avoid moisture on the electrical contacts
- Avoid stray pick-up via the cable (Do not lay cables in parallel with high current loads)
- Avoid strong magnetic materials.
- Avoid operation by air-flow.
- Avoid using at the condition of circumstance occurring condensation.