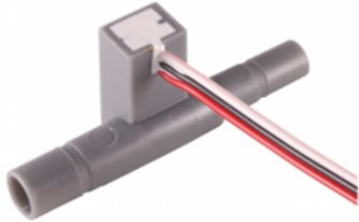


# Compact Flow Sensor (AMWF-015 H21)

PRODUCT SPECIFICATION SHEET



## FEATURES

- It has very excellent characteristics in low flow rate.
- It has very high sensitivity in low flow rate and it is very stable in low range of water flow rate.
- The output has linear character in flux change.
- This sensor has a half-permanent life by high sensitivity semiconductor sensor.
- It is a compact size, so it is so convenient to use a small space.

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## APPLICATION

This sensor is used in water flow sensing.

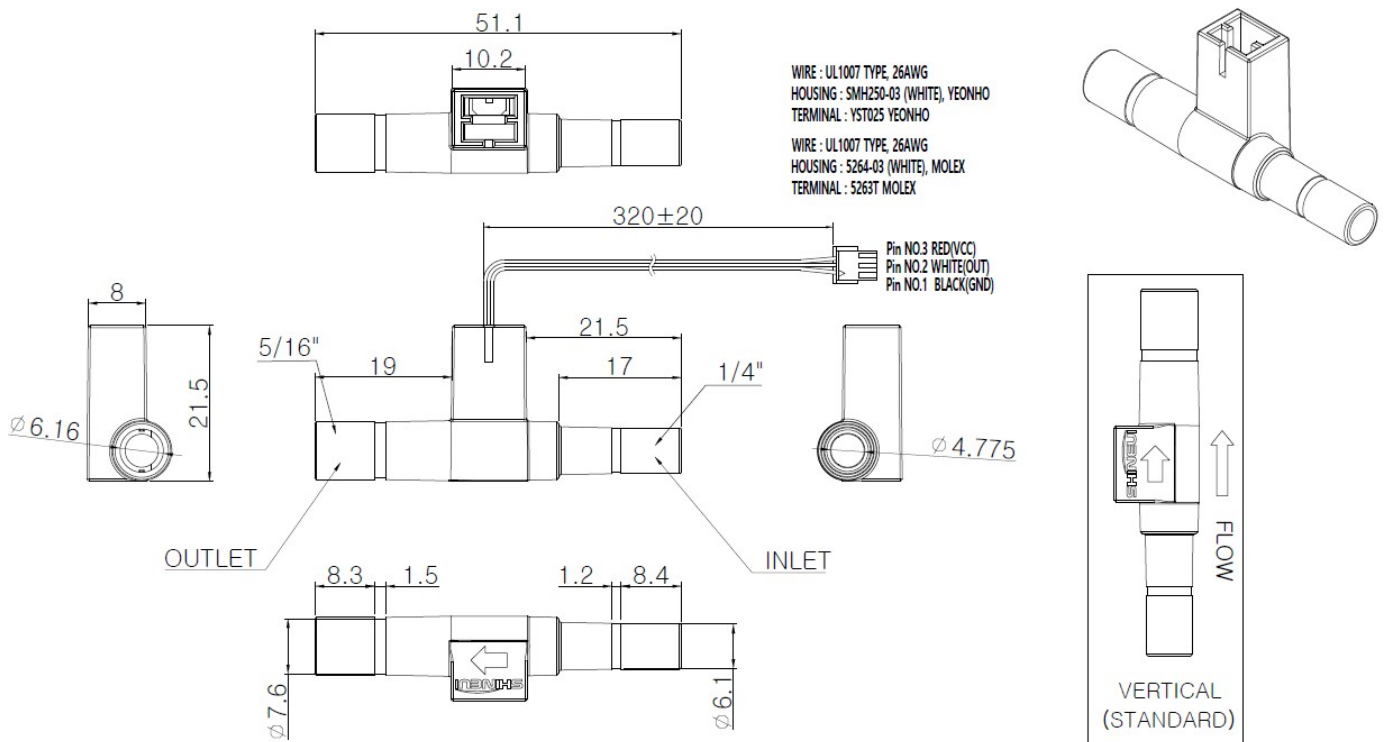
This sensor has application to water ionizer, water purifier, ice maker, coffee machine, and refrigerator appliance.

Type	: Hall sensor	
Installation	: vertical (standard)	
Ambient temperature	: 0 ~ 50℃	
Permissible fluid temperature	: 0 ~ 50℃(It shall not be frozen)	
Material	Plastic	POK (Optional : FDA approved)
	Stopper	POK or SUS304
	Magnet	Sr-Fe
	Molding	Epoxy (IP54)

# SPECIFICATIONS

Fluid	: Filtered Water
Working Range	: 0.2 ~ 1.2l / min
Linear Range	: 0.3 ~ 1.0l / min
Accuracy in Linear	+ / - 10% F.S
Pulse per Liter	: 9,300
Working pressure (Max)	: 10 bar
Supply voltage	: DC 2.7V ~ 24V
Electrical wire connection	: Red = VCC, Black = GND, Output Signal = White
Electrical terminal pin connection	: Housing : SMH-25-03, Terminal : YST025 (YEONHO) ( Optional : Housing : 5264-03, Terminal : 5263 (Molex) )
Life cycles	: 100,000cycles (working : 5sec, stop : 5sec)
Pipe Connection (Fittings)	: Inlet : 1/4", outlet : 5/16"

## DIMENSIONS & Standard Installation



## APPLICATION CIRCUIT

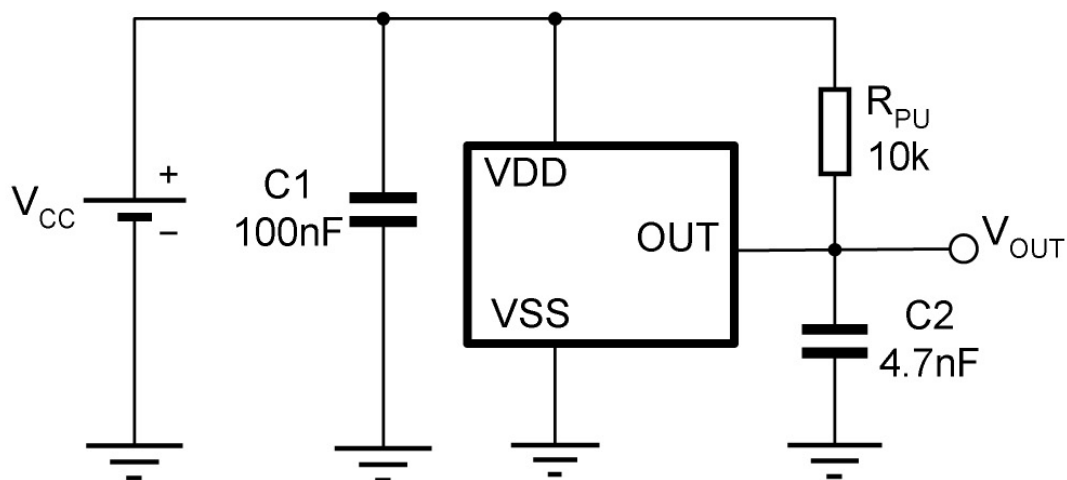
This product includes semiconductor IC.

So this have to be protected from noises of outside circuit.

Please refer to a circuit as below.

(This circuit for protecting from noise was supported by the supplier of semiconductor)

### Typical Three-Wire Application Circuit



### Automotive and Harsh, Noisy Environments Three-Wire Circuit

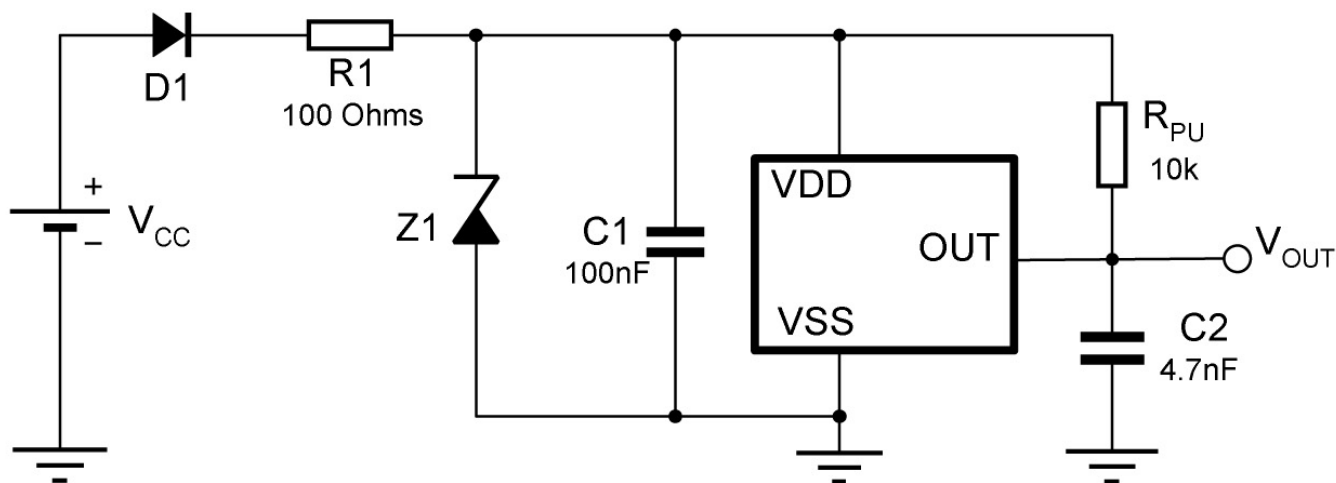
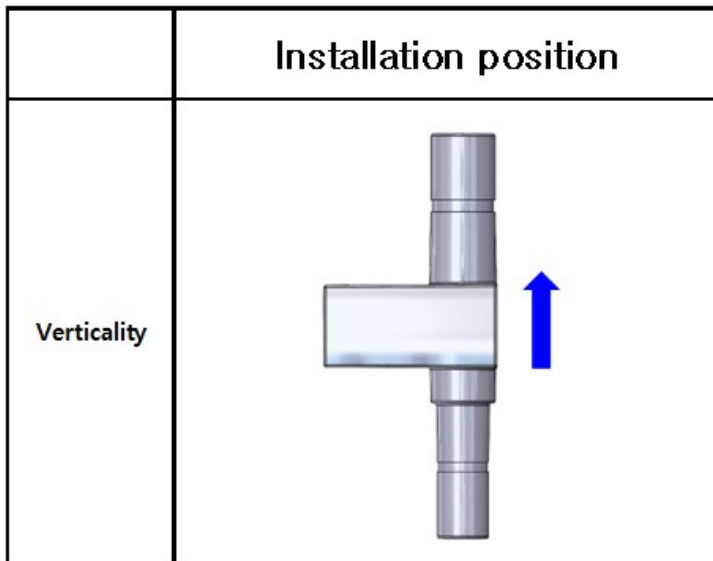


Fig 1. Direct water flow sensor

The specifications and dimensions can be changed without warning

## INSTALLATION DIRECTION



### NOTE

– 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 contacting chemical materials directly or indirectly.
- Avoid operating for more than 10mins non-stop.
- When using, use filtered water.