Lowest Flow Sensor

(AMWF-50CC)

PRODUCT SPECIFICATION SHEET



FEATURES

- This sensor has excellent character in the lowest flow rate.
- Out charateristice(Hz) has linear character in flux change.
- This sensor has a half-permanent life by high sensitivity semiconductor sensor.

CONTENTS

Application	1
Features	1
Specifications	1~2
Dimensions	2

APPLICATION

This sensor is used in water flow sensing.

This sensor has application to coffee machine, water filtering appliance and so on.

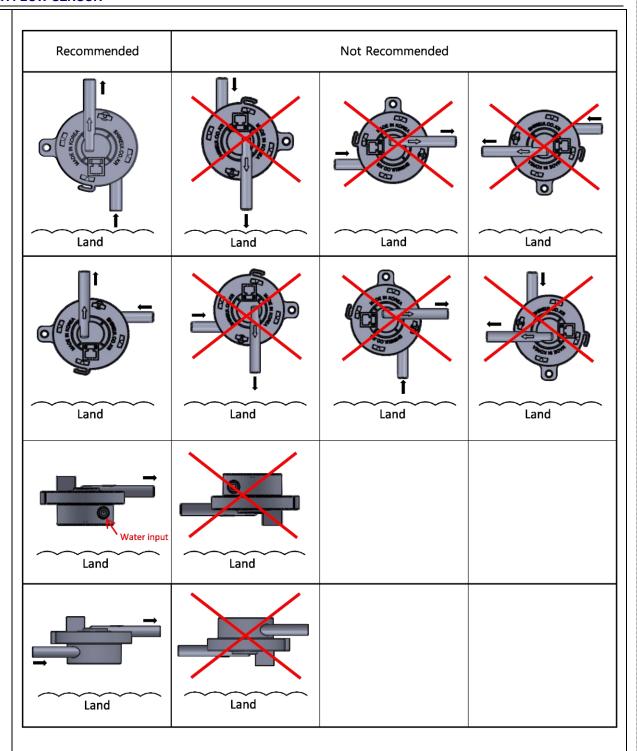
SPECIFICATIONS

Туре	: Magnet sensor		
Installation	: Arrow direction		
Ambient temperature	: 0 ~ 60 ℃		
Ambient humidity	: Room humidity (40 ~ 60%)		
Permissible fluid temperature	: 0 ~ 60 °C (It shall not be frozen)		
Material	: Body	POM (* Optional)	
	Rotor	POM (* Optional)	
	Magnet	Ba – Ferrite	
	Stop ring	SUS304	
	*Optional: FDA certified ma	terials.	

SPECIFICATIONS

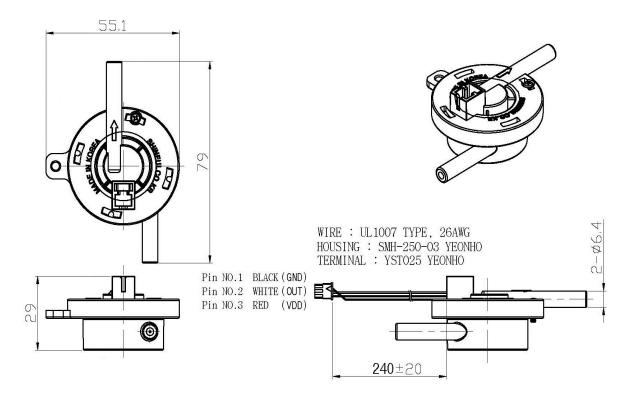
Efficiency	Fluid	: Water	: Water				
	Measuring range	: 0.05~0.5 (ℓ / min)- It is possible to sense at 30(cc/	: 0.05~0.5 (ℓ / min)- It is possible to sense at 30(cc/min) in horizontal-type.				
Flow rate – pulse Formula F(Hz)=150Q(ℓ /min)		Flow rate Q (ℓ /min)	Flow rate Q (ℓ /min) Pulse signal (Hz)				
Formula F (112)=130Q(& /IIIIII)		0.05	7.5	± 15%			
		0.1	15				
		0.2	30				
		0.3	45	Accuracy F.S ± 10%			
			60				
		0.5	75				
Option	Option (SMWF-50cc H12 : F(Hz)=110Q) (SMWF-50cc H12 : F(Hz)=84Q)		S	MWF-50cc H15			
(SMWF-50cc H12 : F(Hz			0.	0.2~1.4 (ℓ / min)			
Working pressure (MA	X)	: 5 kg/cm ²	: 5 kg/cm ²				
Electrical rating		: DC 2.8V ~ 24V, MAX 4.5m	: DC 2.8V ~ 24V, MAX 4.5mA				
Duty cycle		: 30 ~ 70%	: 30 ~ 70%				
Insulation resistance		: Not less than 100 № (Betwee	: Not less than 100 № (Between the connector and body)				
Dielectric strength		: When AC 600V(50/60 Hz) is and body, detecting current is	: When AC 600V(50/60 Hz) is added between the connector and body, detecting current is under 3 mA.				
Pipe Connection		: ONE TOUCH NIPPLE(6.5mm	: ONE TOUCH NIPPLE(6.5mm or 1/4 fast connector)				
Weight		: 37g	: 37g				
Gr (Hz vs	aph s LPM)	120.0 100.0 80.0 40.0 20.0 0.0 0.0 0.0 0.0 0.1 0.2 0.3 0.4 0.3 0.4	100.0 100.0 80.0 SMWF-50CC — SMWF-50CC H12 — SMWF-50CC H15 40.0 20.0				
•							

MICRO WATER FLOW SENSOR



Installation

DIMENSIONS



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 occuring condensation.

APPLICATION CIRCUIT

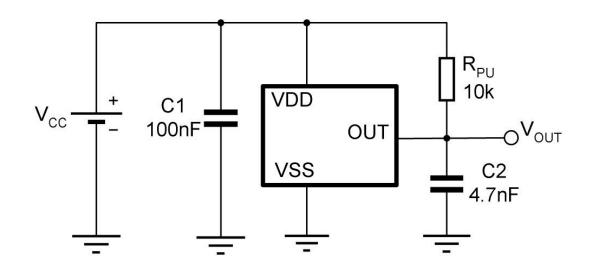
This product includes semiconductor IC.

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

