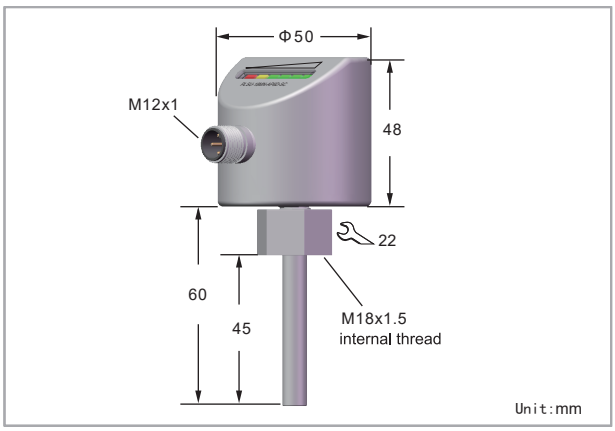
Flow sensor

PLSU-18MN-AP6D-SC



- Calorimetric principle
- Flow sensor for liquid media
- Internal thread M18 x 1.5 for adapter
- 3-wire DC， PNP NO output
- Adjustment via potentiometer
- Flange connector,M12 x 1
- Stainless steel housing

Technical parameter

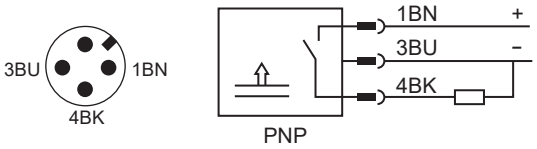
Electrical parameter

Mounting conditions	insertion style sensor
Application	liquid
Operating range	water 1...150cm/s
	Oil 3...300cm/s
Operating voltage	24V±20%
Rated operational current	≤ 200mA
Current consumption	≤ 100mA
Output function	PNP,NO contact
Sand-by times	< 8s
Switch on/off time	< 2s
Response time	max.12s
Liquid medium temperature	-20 to 80°C
Short-circuit protection	yes
Reverse polarity protection	yes
Display	3-color LED chain
Protection classification	IP67

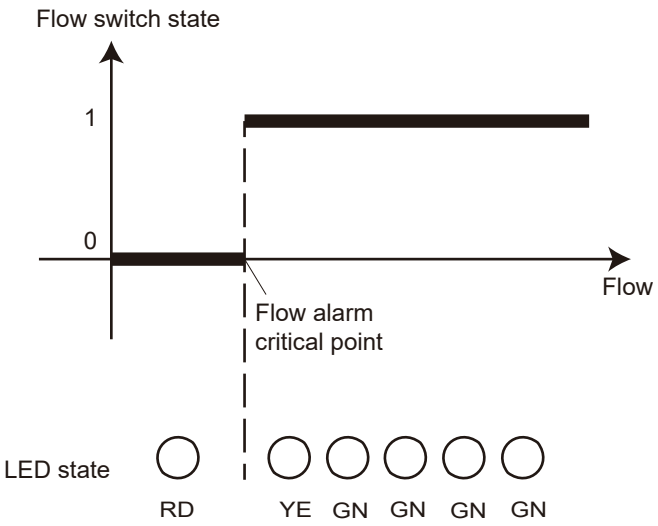
Mechanical parameter

Plastic housing	stainless steel
Sensor material	stainless steel(S304)
Thread connection	internal thread M18 x 1.5
Pressure resistance	100bar
Max.tightening torque housing nut	30Nm
Connection	4pin M12x1 connector

Wiring diagram



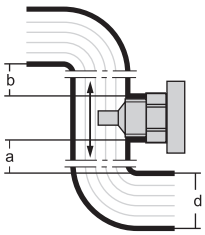
Switch state



Installation instructions

The installation needs to be used with the welded casing or the tee

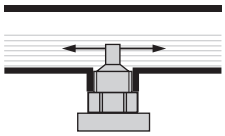
(1)



Note:

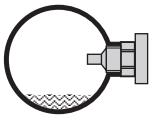
a ≥ 10 x d, b ≥ 5 x d

(2)



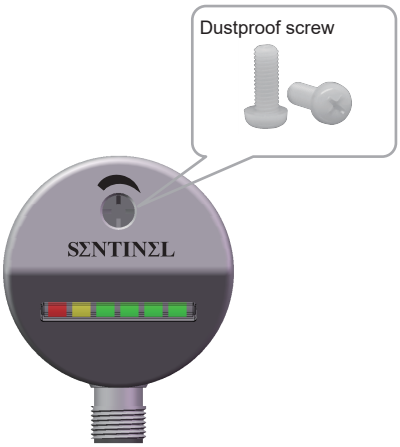
When the medium cannot be fully filled the pipe, the sensor must be installed at the bottom of the pipe

(3)



If there is sediment in the pipeline, install the sensor horizontally on the side and ensure that there is no air pocket near the probe.

Debugging method



LED：

The flow sensor uses 6 LED to indicate the flow state

Switch output：

4 Green LED: Over the setpoint (1,2,3, or 4 green LED lights on)

1 Yellow LED: reach set point / exceed set point

1 Red LED: No setpoint was reached

According to ⌒ indication, the lights on the rotary potentiometer will increase or decrease in sequence.

Adjustment setting

(1) The sensor must have been installed on the pipeline, select the required flow rate (i.e. set point), and can be adjusted after the equipment is powered on for 8S.

(2) Open the Dustproof screw at the front end.

(3) a. Establish the minimum flow rate
b. Adjust the potentiometer to light up the red LED light
c. Return to the normal flow rate so that at least the yellow light and one green light are on