

Sensors and controllers

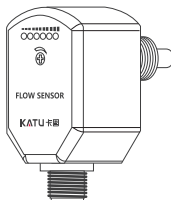
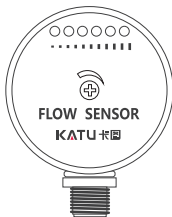
■Flow ■pressure ■Temperature ■level ■position

KATU 卡图

Operating instruction

Electronic flow switch

FS series



Product introduction

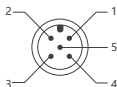
FS series electronic flow switch adopts the thermal principle, which mainly monitors whether the fluid medium in the system is in normal flow state by detecting liquid flow rate, thus achieving a high stability product that can protect the equipment damage caused by water interruption or low flow rate in the operating system. The product is an all-electronic structure, the output signal is amplified and processed by A high-precision, low-temperature drift amplifier, and then fed into A high-precision A/D converter, which is converted into digital signals that can be processed by the microprocessor. The signal processed by calculation controls the output switch to protect the flow of the control system. Flexible use, simple operation, easy to debug, safe and reliable. It is widely used in hydroelectricity, tap water, petroleum, chemical industry, mechanical equipment, automation system, hydraulic and other industries to measure and control the flow rate of the fluid medium, and provide a variety of different operating interfaces for users to choose from.

Connection mode

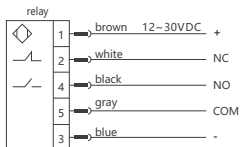
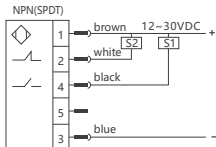
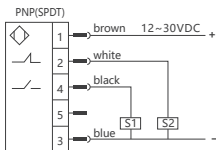
! The products must be wired by qualified electricians and must comply with the electrical equipment Install relevant national and international specifications.

The supply voltage shall comply with EN 50178, SELV, PELV standards

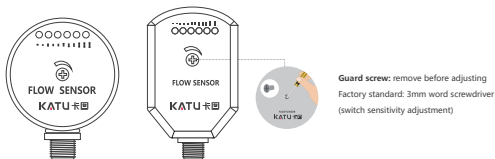
- Cut off the power supply
- Wire the product according to the corresponding wiring method in the figure below



1	brown	24VDC±20%
2	white	NC
3	blue	GND
4	black	NO
5	gray	COM



operation interface



● ○ ○ ○ ○ ○ The red LED light indicates that the switch is off or the flow rate is lower than the set value

○ ● ○ ○ ○ ○ Yellow LED bright represents the flow rate is equal to the set value switch action

○ ● ● ● ○ ○ The bright yellow and green LED indicates that the flow rate is greater than the set value, and the brighter the green light is, the higher the flow rate is

Adjustment reference method:

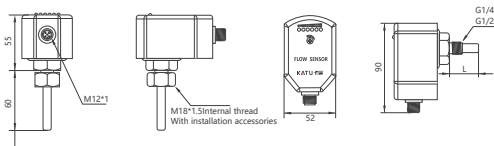
1. After energizing, check the switch and reset all indicator lights after self-inspection
2. Remove the dustproof screw with the factory screwdriver
3. Start the flow and check the status of the indicator
4. Insert the factory screwdriver into the switch setting hole, and adjust according to the actual needs

Switch action value. It is recommended that the indicator light turn on three green lights under normal flow conditions

5. Turn off the flow/turn on the flow to ensure that the switch signal output is normal

Installation instructions

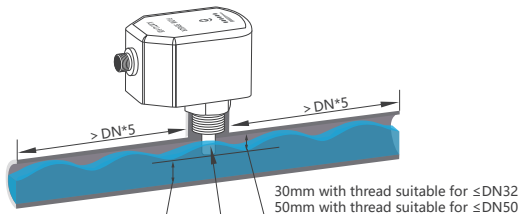
- Before installing the equipment, please read this document to ensure that the product is suitable for your application range and not subject to any restrictions;
 - Failure to comply with operating instructions or technical information may result in personal injury or property loss;
 - Check the compatibility of the product material with the medium to be tested in all applications;
 - If the device is used only as a medium for the material to be tested, it must be used correctly only for long-term stability Operation to ensure that the detected medium will not damage the detected part of the product;
- ! It is the responsibility of the operator to determine whether the measuring sensor is suitable for the appropriate application, and for the operator to use it improperly
- ! Make sure the system is free from any pressure before installing and removing the switch.
- Connect the switch to the optional process interface
 - Tightening torque range recommended: 25 to 35Nm
 - In critical applications, such as severe shock or shock, the connection can be mechanically decoupled through miniature hoses.



unit: mm

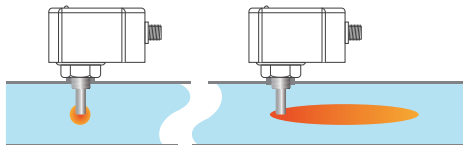
attention

When installed vertically, the probe should be mounted on the tube section flowing from bottom to top. When installed horizontally, the probe should be shielded from air and precipitation.



Do not contact the probe with the pipe wall

The probe is inserted into the pipe to fully contact $> 5\text{mm}$ with the flow medium



water static

water flow →

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