Electronic flow switch SN45 series

The principle characteristics

Based on the thermal principle, the closed probe contains two resistors, one of which is heated as the detection resistance and the other is not heated as the reference resistance. When the medium flows, the heat on the heating resistance is taken away, and the resistance value is changed. The difference between the two resistors is used as the basis for judging the flow rate.

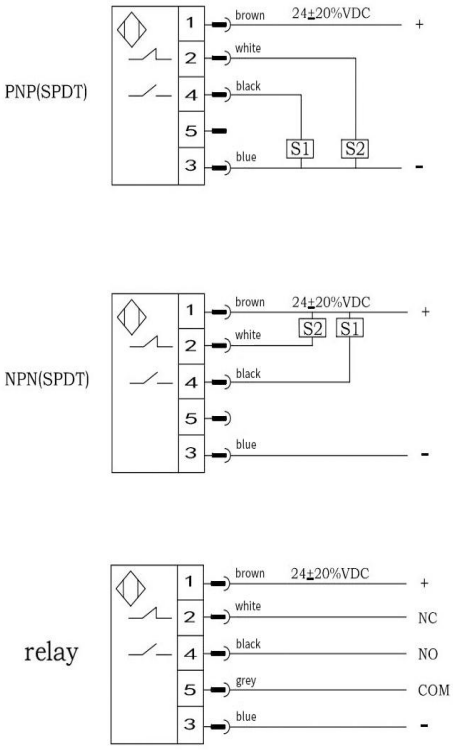
The product application

The GAS-LIQUID type is used in pneumatic and hydraulic systems, and can be used for the detection of flow interruption of circulating water , cutting fluid and lubricating oil, as well as the idling protection of pumps.

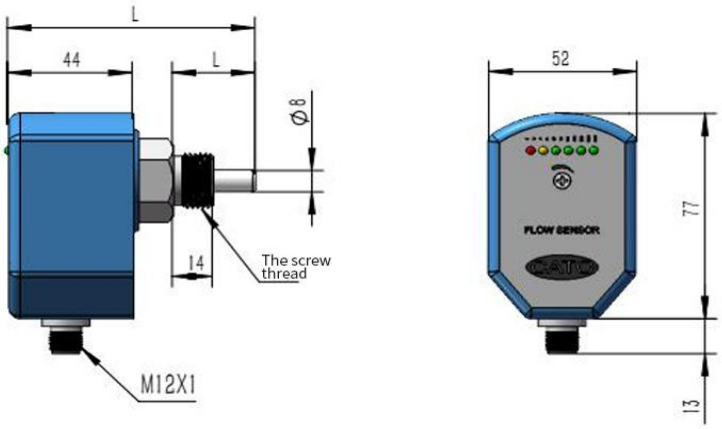
Technical parameters

- Setting range: 1... 150cm/s(water), 3... 300cm/s(oil), 20... 2000 cm/s (air)
- Signal output: PNP,NPN, relay, normally open + Normally closed (SPDT)
- Power supply: 24±20%DC or 230V±15%AC
- Switching current: up to 400mA(PNP or NPN), up to 4A (relay)
- No load current: Max. 80mA
- Flow indicator: LED row (6)
- Setting mode: potentiometer setting
- Pressure range: 100bar
- The temperature gradient: 4℃/S
- Response time: 1-13s, typical value 2s
- Initialization: 8s
- Electrical protection: reverse phase, short circuit, overload protection
- Protection grade: IP67
- Medium temperature: -20…80℃
- The environment temperature: -20…80℃
- Storage temperature: -20…100℃
- Wiring mode: M12 plug-in/direct cable
- Material: Probe: stainless steel
  Shell: PBT,
- Weight: 0.4 kg

The wiring diagram



Size chart



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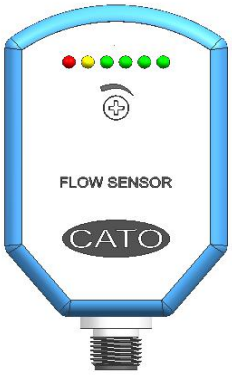
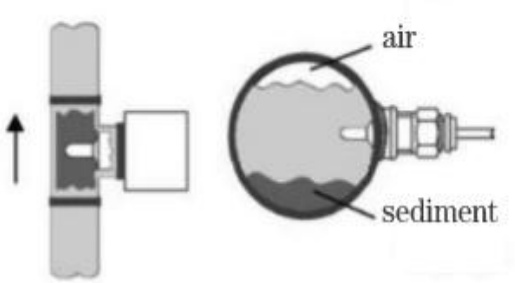


LED function and setting (switch type)

Red LED light	Yellow LED light	Yellow and green
Represents a disconnection or	It stands for velocity and so on	The LED light on behalf of
Flow rate lower than set	Open at set point	Speed greater than set
Fixed value switch release	Close the action	Value, the green light changes
put		The more light there is
		The greater the flow velocity

The installation

When INSTALLED VERTICALLY, THE PROBE SHOULD BE INSTALLED ON the bottom to top flow pipe section, when installed horizontally, the probe should avoid air and sediment



选型表

SN45-	G12H	D	C	R	Q	--	detailed
SN45-							SN45 series electronic flow switch
	G12H						Interface thread G1/2 External thread
	G14H						Interface thread G1/4 External thread
	M18K						Interface thread M18 x 1.5 internal thread With the installation accessories, it is easy to rotate and adjust the installation direction on site
		D					Power DC24V plus or minus 20%
		W					AC230V plus or minus 15%
			P				PNP The output
			N				NPN The output
			C				Output of relay
				R			Output normally open + normally closed
					Q		M12 x 1 connector
					C		Direct outgoing line (standard 2-meter line)
						30	Length of rod unit mm (including thread)

* Factory standard electrical accessories M12 connector type ZL05-PU02FG
* When installing M18*1.5 internal threads, select the installation accessories
* Electrical accessories and installation accessories please see the accessories page on page -