Electronic flow switch (sensor)SN55 series

Principle and Characteristics

Based on the thermal principle, the sealed probe contains two resistors, one of which is not 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. No MOVING parts, MAINTENANCEfree, EASY TO install, one model is suitable for a variety of pipe diameter requirements, switch quantity is continuously adjustable, very low pressure loss, compact structure, LED display flow trend and switch status

application

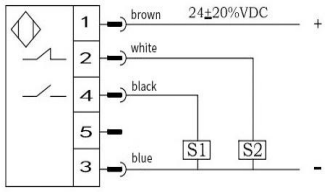
Gas-liquid dual purpose, low flow rate alarm, can be used in pneumatic and hydraulic systems, can be used for circulating water , cutting fluid and lubricating oil interruption detection, and pump idling protection.

Technical parameters

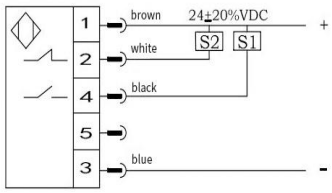
- Setting range: 1... 150 cm/s (water), 20... 2000 cm/s (air)
- Signal output: PNP,NPN, relay normally open + normally closed (SPDT)
- The power supply: 24V±20%DC
- Switching current: Max. 400mA(PNP or NPN)
  Maximum 1A@48V (relay type)
- No load current: Max. 80mA
- Flow indicator: LED row (6)
- Setting mode: potentiometer setting
- Pressure range: 100bar
- The temperature gradient: ≤4°C/S
- Response time: 1-13s, typical value 2s
- Initialization time: about 8s
- Electrical protection: reverse phase, short circuit, overload protection
- Protection grade: IP67
- Medium temperature: -20-80°C
- The environment temperature: -20-80°C
- Storage temperature: -20-100°C
- Wiring mode: M12 connector / 2 meters wire directly optional
- Material:
  Probe: stainless steel
  Case: stainless steel
- Weight: about 0.4kg

The wiring diagram

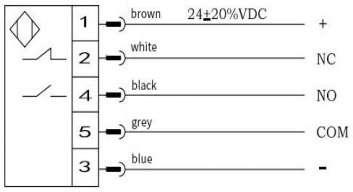
PNP(SPDT)



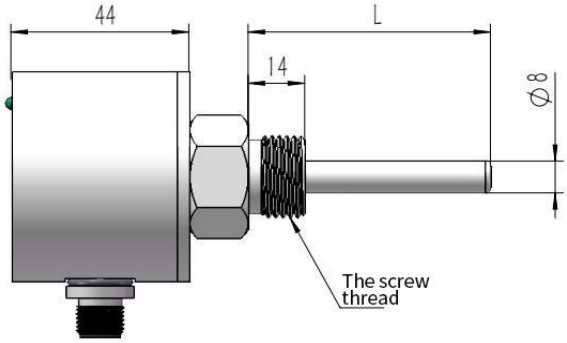
NPN(SPDT)

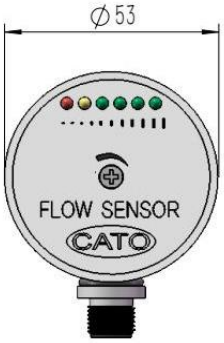


relay



Size chart





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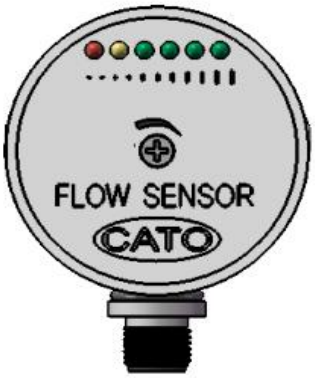
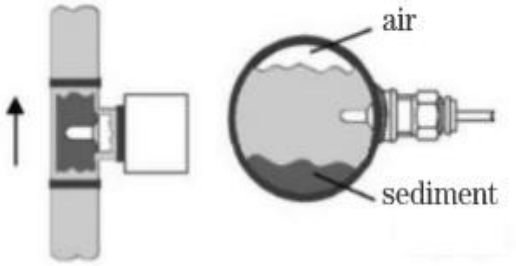
LED function and setting (switch type)

Red LED light：	Yellow LED light	Yellow and green
Disconnection or flow rate	It stands for velocity and so on	The LED light on behalf of
Open below set value	Open at set point	Speed greater than set
Customs release	Close the action	Value, the green light changes
		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



Selection table

SN55	-	G12H	G	P	R	Q	-	detailed
SN55	-							SN55 series Electronic Flow switch (sensor)
		M18K						Interface thread M18 x 1.5 internal thread
		G12H						Interface thread G1/2 External thread
		G14H						Interface thread G1/4 External thread
			G					Dc 24V+20% power supply
				P				PNP The output
				N				NPN The output
				C				Output of relay
					R			Normally open + normally closed output
						C		Direct line
						Q		Connector type (standard 2-meter wire)
							-	Unit of probe length: mm (default: 30mm)

Note: Customization is supported