

The selection is detailed on page 4



FS-50 Electronic Flow Switch

Principle and structure

Based on the thermal principle, a closed probe contains two resistors, one heated as the detection resistor and the other unheated as the reference resistor. When the medium flows, the heat on the heating resistor is carried away. The resistance value has been changed. The difference between two resistances is used as a basis for determining the flow rate.

Characteristic

No moving parts, maintenance free, easy to install, one model is suitable for multiple pipe diameter requirements. Continuous adjustable switch quantity, extremely low pressure loss, compact structure, LED display of flow trend and switch status.

Application

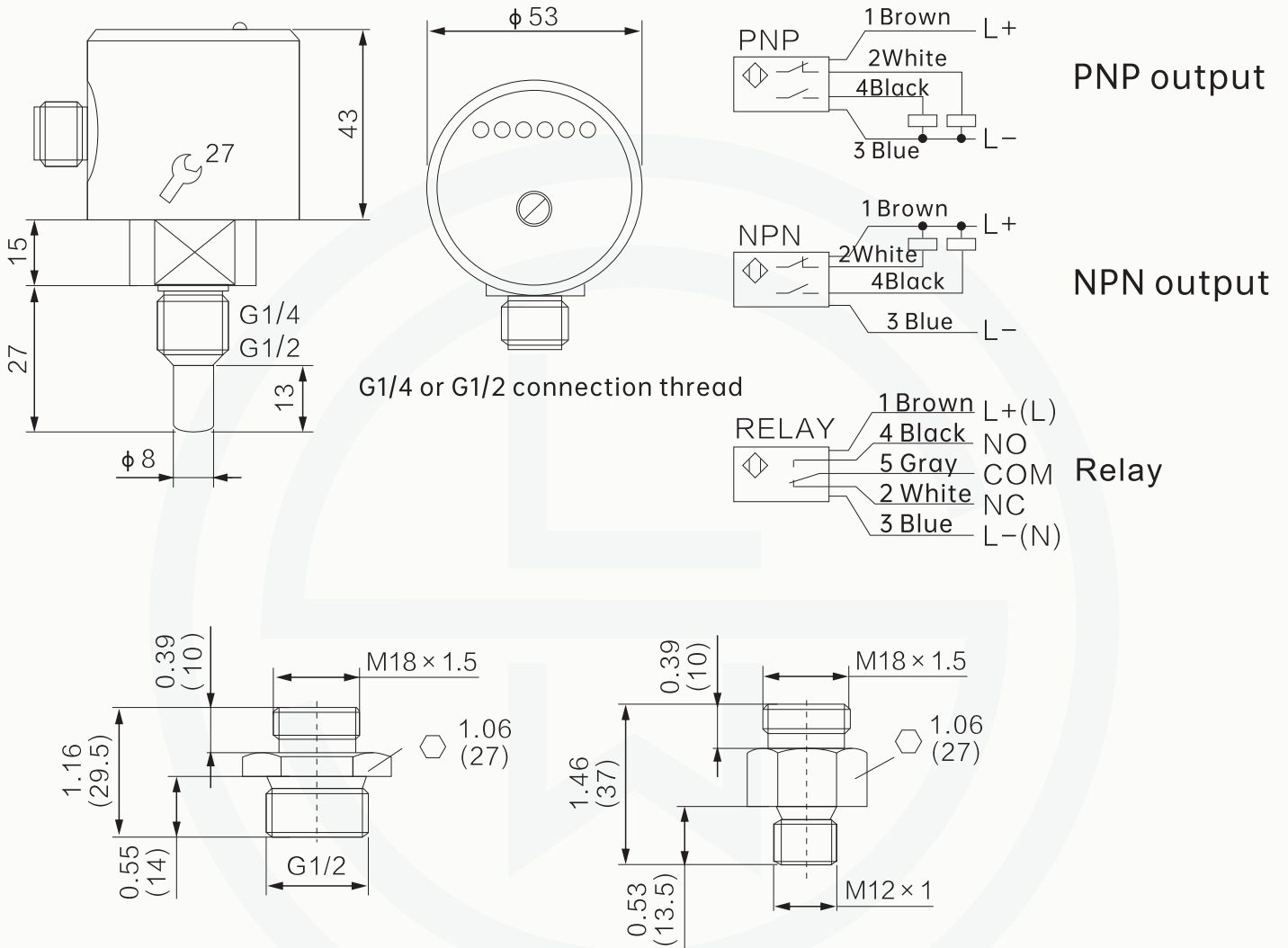
Gas liquid dual-purpose type, can be used in pneumatic and hydraulic systems, can be used for monitoring the interruption of circulating water, cutting fluid, and lubricating oil, as well as for pump idle protection.



Technical Parameter

Set range	1... 150cm/s (water), 3... 300cm/s (oil), 20... 2000cm/s (air)
Signal output	PNP,NPN, Relay, normally open+normally closed
Power supply	24V+20%DC
Connect current	Maximum 400mA (PNP, NPN); maximum 1A@24Vac /DC (relay type)
No load current	Maximum 80mA
Flow indication	LED row (6 pieces)
Setting method	Potentiometer setting
Voltage withstand range	100bar
Changes in medium temperature	≤4°C/s
Response time	1-13s, typical value of 2s
Initialization time	About 8 seconds
Electrical protection	Reverse phase, short circuit, overload protection
Protection level	IP67
Medium temperature	-20~80°C
Ambient temperature	-20~80°C
Storage temperature	-20~80°C
Wiring method	M12 connector
Texture of material	Probe: stainless steel; Shell: stainless steel
Weight	Approximately 0.4kg

External dimensions (unit: mm)



FS50-Selection composition

Selection example **FS50**

1. Pressure interface	A	G1/2
	B	G1/4
2. Interface thread	H	External thread
3. Power supply	D	DC 24V ± 20% power supply
4. Output	P	PNP output
	N	NPN output
	C	Relay output
5. Output method	R	Normally open+normally closed output
6. Attachment	Q	Plug in style

Instructions:

FS50 electronic flow meter, pressure interface G1/2, external threaded interface, DC 24V ± 20% power supply, PNP output, normally open+normally closed output mode, plug-in type.

Product Certification

Compliance and approval; Ludwig flow meters meet key standards and certifications for process measurement technology; To ensure the highest reliability in such settings;