FLOW SWITCH PKS-410

Working Principle

Based on the thermal principle, the closed probe contains two resistors, one of which is heated as a detection resistor, and the other is not heated as a reference resistor. When there is a medium flowing, the heat received by the thermal sensor will follow the medium. When the flow rate changes, the thermal sensor converts the temperature difference signal into an electrical signal. When the flow rate reaches a certain set point, the thermal flow switch outputs a switching signal.

Features

- No moving parts and free maintenance;
- Easy to install, one model is suitable for various pipe diameter requirements;
- The switching value is continuously adjusted, and the pressure loss is extremely low;
- Compact structure, LED display flow trend and switching status.

Application

The flow switch is mainly installed on-line or plug-in in pipelines such as water, gas and oil to monitor the flow in the system. When the flow is higher or lower than a certain set point, the output alarm signal is triggeredand transmitted to the system. After the system obtains the signal, the corresponding instruction action can be made to avoid or reduce the “dry burning” of the main engine.

It can be widely used in:

- Industrial automation
- Mechanical equipment
- Air compression industry
- Refrigeration and air conditioning fields

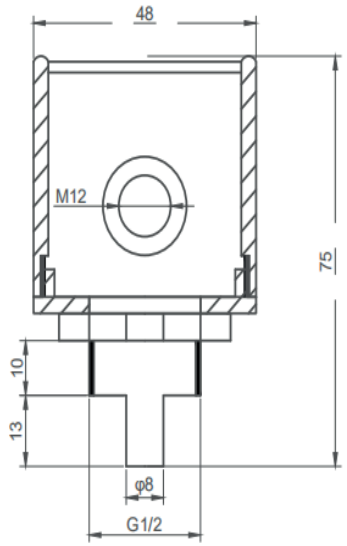
In industrial occasions, it is specifically used in water-cooled welding machines, laser equipment cooling systems, vacuum coating machines, electric furnaces, polysilicon ingot furnaces, etc.

Specification

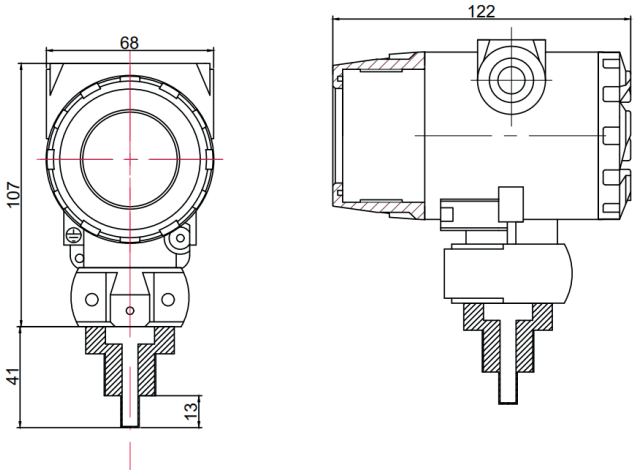
Measurement range:
1~150cm/s (water)
3~300cm/s (oil)
20~2000cm/s (air)
Output signal: PNP, NPN, Relay
Power supply:
24V±20%DC
Max. 400mA for PNP or NPN
Max. 1A@36VAC/DC relay type
No-load current: Max. 80mA
Set type: Potentiometer setting
Rated pressure: 100bar
Medium temperature changes: ≤4℃/s
Response time: 1~13s
Initialization time: 8s
Electrical protection:
Reverse, short circuit, overload protection
Protection: IP65
Medium temperature: -20~90℃
Ambient temperature: -20~80℃
Material:
Probe: SS304/SS316
Housing: Stainless Steel/Cast Aluminum
Accuracy: ±2%

Dimesions

Standard Type

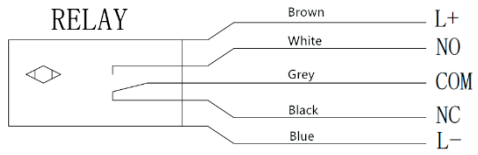


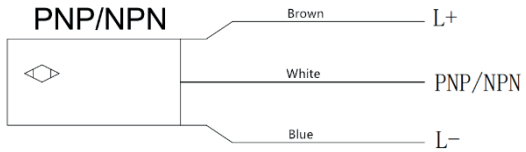
Exproof Type



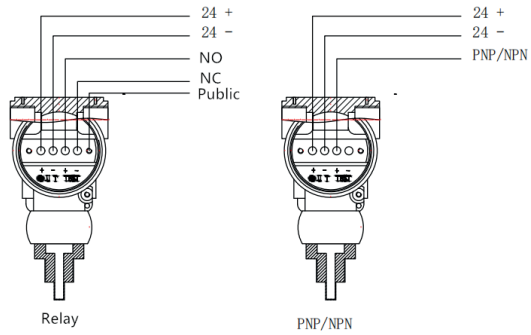
Wiring Type

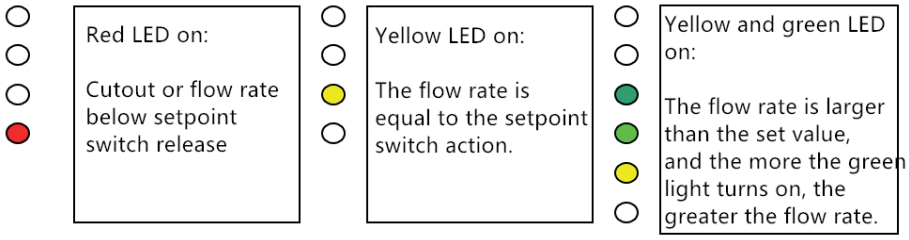
Standard Type





Exproof Type





Selection

PKS-410 series						
A	Insertion type					Type
B	Display type					
F	Ex-proof type					
	G12	G1/2” (Insertion type)				Process connection
	G14	G1/4” (Insertion type)				
	H1	External thread (Pipe type)				
	H2	Flange (Pipe type)				
	Z	Customized				
		G	24V±20%DC			Power supply
			1	PNP		Output signal
			2	NPN		
			3	Relay (NO/NC)		
				S1	SS304	Wetted material
				S2	SS316	