FSI550 Flow Switch



Features

- Optional power supply 24VDC or 220VAC
- OLED screen, switchable display between the progress bar and digital display
- All stainless steel housing, IP67 protection
- Temperature compensation
- 2-way PNP /2-way NPN /1 relay output are optional /2-way PNP+4~20mADC
- · No moving parts, maintenance-free
- Switch output, control point setting continuously on panel
- Compact size, support inverted display
- Mounting joint can be equipped with different interfaces for a variety of pipe diameters requirement

Introduction

FSI550Flow Switch is an intelligent thermal diffusion principlebased flow monitoring sensor. It adopts ARM processing core and combines with high quality sensors and dedicated circuit. With temperature-compensation and calibration, it can ensure measurement accuracy in the case of water temperature change. It is available for real-time monitoring of pipe water flow. It can be used for cooling or lubrication system flow monitoring to realize pre-warning and protection for critical equipment when there is flow fault. It uses fully enclosed design, stainless steel construction to adapt to a variety of application environment. It is with overvoltage, over-current and reverse polarity protection function. With self-luminous OLED screen, it allows switchable display between the progress bar and digital display numbers. FSI550 supports quick action point set, also it has display inversion function that enables installation in any direction, and no need for frequent adjustment and maintenance. It can be applied for operation protection of large equipment in fields such as power generation, metallurgy, steel, paper, boilers etc.

FSI550 Flow Switch

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Specification

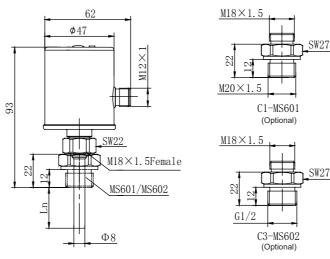
Measure Range	1cm/s~150cm/s (water);		
Optimal Range	3cm/s ~ 100cm/s (water)		
Power Supply	(24±4.8)V DC / 220VAC		
Working Current	≤ 60mA		
Switch Accuracy	±10cm/s		
Hysteresis	±2cm/s~±8cm/s		
Initial Time	2s~15s, 8s(typ.)		
Switch-off Time	1s~15s, 2s(typ.)		
Switch-on Time	1s~13s, 2s(typ.)		
Output Signal	1relay\2 NPN\2 PNP\2PNP+4~20mADC		
Output Function	NO, NC(optional)		
Relay Characters	Switch voltage: ≤ 250V AC / 30V DC		
	Switch current: ≤3A		
Townsia town Olementers	Switch voltage drop: ≤ 1.5V		
Transistors Characters	Switch current: ≤ 400mA		
Display	OLED indicator, resolution 128×32		
Electrical Protection	Reverse, short-circuit,over-voltage		
Housing	Stainless steel		
Button	PP		
Probe	Stainless steel		
Installation	Joint mounting + adaptor		
Endurance Pressure	10MPa		
Set	Button		
Electrical Connection	M12×1 5-pin plug		
Gross weight	265g		
Water Temp.	-20°C ~80°C		
Storage Temp.	-30°C ~85°C		
Working Temp.	-20°C ~70°C		
Protection	IP67		
Temperature Compensation	5°C ~50°C (water)		
Electromagnetic Compatibility	GB/T17626.2/3-2006, GB/T 17626.4-2008		
Shock	≤3g (GB/T JJG 882-2004)		
Impact	≤ 50g/11ms (GB/T 2423.5-1995)		

Note: The above specification test medium is water;

5cm/s~100cm/s; 20°C (Factory defaults)

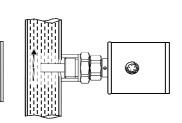
Outline Connection(Unit: mm)

Outline Construction and Installation are shown below:



Suggested installation method:

Horizontal Pipe:



Vertical Pipe:



Progress Bar

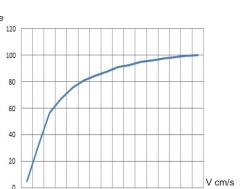


Digital Display

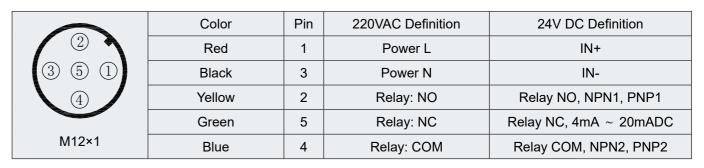


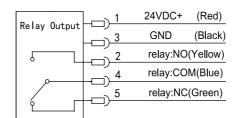
When Switch Point Sign light is flashing, it indicates that the velocity exceeds the switch action velocity

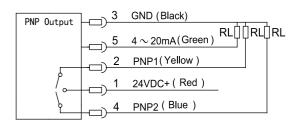
Curvilinear relation between digital indication and velocity:

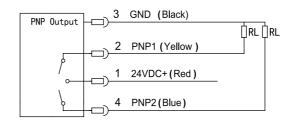


Electrical Connection









Order Guide

FSI550	Flow Switch						
	Code	Power Supply					
	DC	24VDC	4VDC				
	AC	220VAC					
		Code	Process Connection				
		C1	M20×1.5 male adaptor(MS601)				
		C3	G1/2 male adaptor(MS602)				
		Code Output					
			J	1×Relay Output			
			N 2×NPN Transistor Output		Transistor Output		
			Р	P 2×PNP Transistor Output PE 2×PNP + 4mA~20mADC			
			PE				
				Code	Probe Length		
				L1	15mm		
				L2	18mm		
			L3	21mm			
				L4	68mm		
FSI550 [OC .	C3	J	L1	Whole Spec.		

Optional accessories:

ZR901 2m 5-pin M12×1 Female Elbow RVVP Cable(Standard)

ZR601 M20×1.5 male adaptor

ZR602 G1/2 male adaptor

Notes

- 1. Pressure port can be customized for users. Please note in the purchase order.
- 2. If users have special requirement for the specification or function, please contact us freely.