

FST300 Electronic Flow Switch

APPLICATION

Gas-liquid dual type is used for pneumatic and hydraulic systems, can be used for circulating water, cutting fluid and lubricating oil flow detection and pump idling protection.



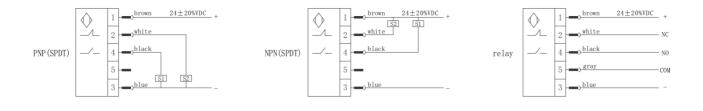
WORKING PRINCIPLE

SenTec FST300 electronic flow switch based on the thermal principle, the enclosed probe contains two resistors, one of which is heated as the detection resistance and the other is not heated as the reference resistance is taken away, the resistance value is changed, and the difference between the two resistances is used as the basis for judging the flow rates.

SPECIFICATION

ITEMS	PARAMETER	ITEMS	PARAMETER
Set the range	1150cm/s(water), 3300cm/s(oil), 202000cm/s(air)	Response time	1-13s, typical values 2s
Signal output	PNP, NPN, relay, Normally open+normally closed (SPDT)	Initialization time	8s
Power supply	24±20%VDC or 230V±15%VAC	Electric protection	Invert, short circuit, overload protection
Turn on the current	Max. 400mA(PNP or NPN), Max. 4A(Relay)	Protection grade	IP67
No-load current	Max. 80mA	Medium temperature	-20 ° C ~ 80 ° C
Flow indicator	LED row (6)	Environment temperature	-20 ° C ~ 80 ° C
Set way	Potentiometer setting	Storage temperature	-20 ° C ~ 100 ° C
Pressure range	100bar	Connection mode	M12 plug-in/direction attachment line
Temperature gradient	≤4 ° C/S	Material	Stainless steel(Probe), PBT(Shell)
Weight	0.4KG		

WIRING DIAGRAM

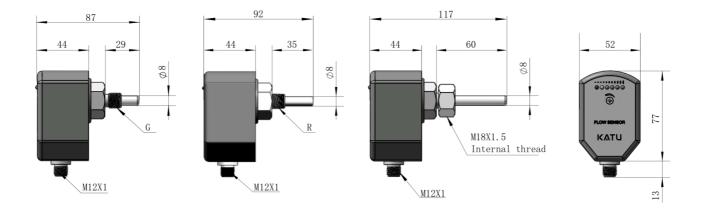


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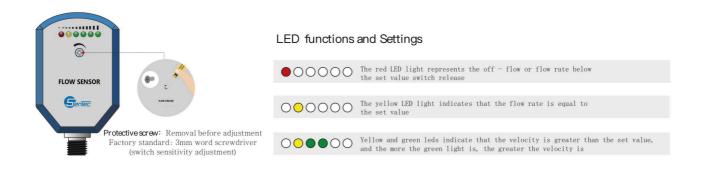
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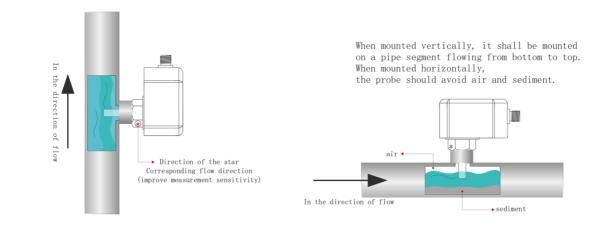
DIMENSIONS (mm)



LED FUNCTIONS AND SETTING



INSTALLATION



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ORDER GUIDE

FST300	Electroni	c flow switch					
	CODE	Thread size					
	G12	Joint thre	Joint thread G1/2 external thread				
	G14	Joint thre	ad G1/4 e	xternal thr	ead		
	R12	Joint thre	ad RC1/2	external th	nread		
	R14	Joint thre	ad RC1/4	external th	nread		
	M18		Joint thread M18*1.5 internal thread. It is convenient to use with the installation accessories to rotate the installation direction on site.				
		CODE	Power supply				
		DC	24±20%VDC electricity				
		AC	230V±15%VAC electricity				
			CODE	CODE Output			
			Р	P PNP output			
			N	NPN out	put		
			с	Relay ou	tput		
				CODE	Electric cor	nnection	
				M M12*1 connector (standard zl05-pu02fg, see the attachment for details)			
				Z Direction outgoing (standard with 2 meters of wire)			
				CODE Length of probe rod			
				Standard type G thread, with thread 30mm suitable for ≤DN32 Standard type R thread, 35mm thread is suitable for ≤DN32			
			50 mm (including 50 thread), suitable for ≥DN40				

* factory standard with electrical accessories M12 connector type zl05-pu02fg

* select M18*1.5 internal screw mounting method please note that installation accessories are selected, M18 screw does not support rod length variation

* for electrical accessories and installation accessories, please refer to the attachment page on page -

OPTIONAL ACCESSORIES

• Electrical accessories



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Installat	ion acc	essories
IIIStallat	IOII acc	essones

name	contour map	Size chart (mm)	model
G1/4Welding the base		A-A All of the chanfer0.3	FA002-G14 (Material: 304 stainless steel)
G1/2Welding the base		A-A All of the chamfer0.3 G1/2 $+0.20$ A	FA002-G12 (Material: 304 stainless steel)
Rc1/4Welding the base		A-A All of the chamfer0.3 $R_{C1/4}$ $A-A$ $R_{C1/4}$ $A-A$ $R_{C1/4}$ $A-A$ A A A A A A A A A	FA002-R14 (Material: 304 stainless steel)
Rc1/2Welding the base		A-A All of the chanfer 0.3 $R_{c1/2}$ $+0.20$ A	FA002-R12 (Material: 304 stainless steel)
M18*1.5Welding the base		37 MI8X1.5 0 5 5 6 5 6 5 6 5 0 8.50	FA002-M18 (Material: 304 stainless steel)

• Optional accessory -adapter

name	contour map	Size chart (mm)	model
M18 * 1.5 internal thread To g1/4 male thread, Probe insertion depth 15mm		37 A-A 10 13.50 C1	FAOO4-M18G14S (Material: 304 stainless steel)
		⁵ <u>MII8*1. 5</u> <u>GI/4</u> <u>A</u>	FA004-M18G14T (Material: brass)
M18 * 1.5 internal thread To g1/2 male thread		37 A-A 10 13.50 C1	FA004-M18G12S (Material: 304 stainless steel)
			FA004-M18G12T (Material: brass)

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Optional accessory -tee

name	contour map	Size chart (mm)	model
M18 * 1.5 internal thread Equipped with G1/4 tee		B-B 0 0 0 0 0 0 0 0 0 0 0 0 0	FA003-M18G14 (Material: 304 stainless steel)
M18 * 1.5 internal thread With G3/8 tee		A-A G MI8X1.5 12 3 60 12 3 60 60 A	FA003-M18G38 (Material: 304 stainless steel)
M18 * 1.5 internal thread Equipped with G1/2 tee		A - A $A - A$ $A -$	FA003-M18G12 (Material: 304 stainless steel)
M18 * 1.5 internal thread With G3/4 tee			FA003-M18G34 (Material: 304 stainless steel)

• Optional accessory -tee

name	contour map	Size chart (mm)	model
Type G1/4 small flow tee			FA010-04614 (material: PP)
Type G1/4 straight hole tee			FA010-06614 (material: PP)
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Type G1/4 small flow tee			FA010-08614 (material: PP)
Type G1/2 straight hole tee	60 50 10 10 10 10 50 50 50 50 50 10 10 10 50 50 50 10 10 10 10 10 10 10 10 10 10 10 10 10		FA010-10G12 (material: PP)
Type G1/2 straight hole tee		45 15 61/2	FA010-12G12 (material: PP)
G1/4 gas only Tee adapter			FA012-01 (material: PP)