

FST320 Electronic Flow Switch

MAIN FEATURES

- Digital clear display flow percentage
- high sensitivity
- The switch value can be adjusted continuously
- PNP / NPN / relay / 4 ~ 20mA
- Gas liquid dual purpose
- Suitable for various pipe diameter requirements
- Wide power supply (24 VDC, 85 ~ 265vac, 120 ~ 370 VDC)
- IP67 protection level



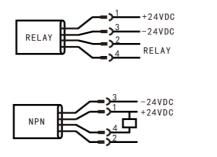
WORKING PRINCIPLE

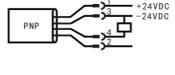
FST320 electronic pressure switch hardware is widely used in aviation, automobile, military and other high-tech fields of precision electronic components, super strong anti-interference and reliable and stable patent integrated circuit design, simple operation, rich instrument interface software system, so that the detection signal more accurate and stable Its products have been widely used in metallurgy, power, pharmaceutical, chemical, petroleum, water treatment, food and other industries.

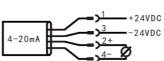
SPECIFICATION

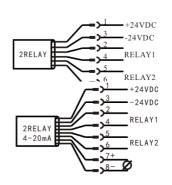
ITEMS	PARAMETER	ITEMS	PARAMETER
Measuring range	Water: 3 ~ 300cm / S; gas: 0 ~ 9000cm / S; oil: 3 ~ 300cm / s	Sensor length	15mm, 20mm, 30mm, 40mm, 60mm
Accuracy	±1~±10cm/s	Display	LED digital display
Warm up time	3 minutes after power on	Current consumption	< 80mA
Working pressure	100bar	Setting mode	key setting
Medium temperature	- 40 ° C ~ 125 ° C	Response time	< 2 s
Process connection	G1 / 2, G1 / 4 external thread, M18 × 1.5 internal thread	Load current	250mA, relay: 30VDC / 5A, 85 ~ 265vac / 5A 120~370VDC/5A
Set way	Potentiometer setting	Maximum change rate of medium temperature	300K / min
Output signal	PNP / NPN / relay / 4 ~ 20mA	Electrical protection	reverse / overload / short circuit
Power supply	24 VDC, 85 ~ 265vac, 120 ~ 370 VDC	Protection grade	IP67
Connection mode	standard M12 connector	Material	probe: ansi316l, Body: ansi316l

WIRING DIAGRAM



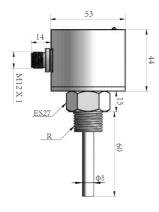


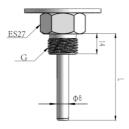


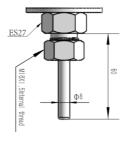


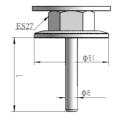


DIMENSIONS (mm)

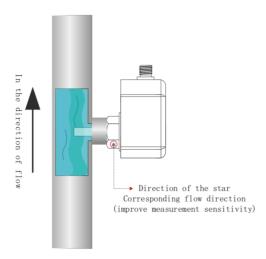






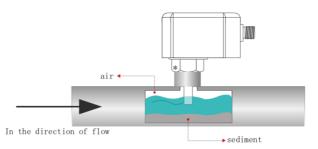


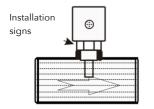
INSTALLATION



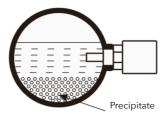
When mounted vertically, it shall be mounted on a pipe segment flowing from bottom to top. When mounted horizontally, $\[\]$

the probe should avoid air and sediment.

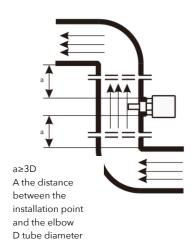




When installing, please pay attention to the flow switch installation indication is opposite to the flow direction.



If there is sediment in the pipe, please refer to this installation method.





ORDER GUIDE

FST320	Electroni	ic flow switch				
	CODE	Thread siz	Thread size			
	G12	Joint thre	Joint thread G1/2 external thread			
	G14	Joint thre	Joint thread G1/4 external thread			
	R12	Joint thre	Joint thread RC1/2 external thread			
	R14	Joint thre	Joint thread RC1/4 external thread			
	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	PNP output NPN output		
			Р			
			N			
			С			
				CODE Electric connection		
				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

OPTIONAL ACCESSORIES

• Electrical accessories





^{*} 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 -



• Installation accessories

name	contour map	Size chart (mm)	model
${ m G1/4Welding}$ the base		A-A All of the chamfer 0.3 G1/4 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7	FA002-G14 (Material: 304 stainless steel)
G1/2Welding the base		A-A All of the chamfer 0.3 G1/2 +0.20 2 0 A A A A A A A A A A A A A	FA002-G12 (Material: 304 stainless steel)
$ ext{Rc1/4Welding the base}$		A-A All of the chamfer0.3 Re1/4	FA002-R14 (Material: 304 stainless steel)
$ ext{Rc}1/2 ext{Welding the base}$		A-A All of the chamfer 0.3 Rel/2 +0, 20 7, 7,	FA002-R12 (Material: 304 stainless steel)
M18*1.5Welding the base		37 MISXI. 5 10 7 ES22 ϕ 8. 50	FA002-M18 (Material: 304 stainless steel)

• Optional accessory -adapter

name	contour map	Size chart (mm)	model
M18 * 1.5 internal thread		FA004-M18G14S (Material: 304 stainless steel)	
To g1/4 male thread, Probe insertion depth 15mm		80 M18*1. 5	FA004-M18G14T (Material: brass)
M18 * 1.5 internal thread		37 A-A 10 13.50 A	FA004-M18G12S (Material: 304 stainless steel)
To g1/2 male thread		M18*1. 5 G1/2 A	FA004-M18G12T (Material: brass)



• Optional accessory -tee

name	contour map	Size chart (mm)	model
MI8 * 1.5 internal thread Equipped with GI/4 tee		B-B B B B B B B B B B B B B B B B B B B	FA003-M18G14 (Material: 304 stainless steel)
MI8 * 1.5 internal thread With G3/8 tee		A-A A-A A-A A-A A A A A A A A	FA003-M18G38 (Material: 304 stainless steel)
MI8 * 1.5 internal thread Equipped with G1/2 tee		A-A M18X1. 5 M18X1. 5 M18X1. 5 A A A A A A A A A A A A A	FA003-M18G12 (Material: 304 stainless steel)
M18 * 1.5 internal thread With G3/4 tee		A-A M18X1.5 0.5 82 0.5 83 A A A	FA003-M18G34 (Material: 304 stainless steel)

• Optional accessory -tee

name	contour map	Size chart (mm)	model
Type G1/4 small flow tee		60 50 15 16 16 16 16 16 16 17 18 18 19 10 11 11 11 11 11 11 11 11 11	FA010-04G14 (material: PP)
Type G1/4 straight hole tee		60 50 15 15 16 6 16 6 16 6 17 16 6 17 16 6 17 16	FA010-06G14 (material: PP)



