Новые Индустриальные Компоненты

SF

Rev. 8.03

(495) 221-58-89 www.newic.ru



SF Paddle Flow Switch

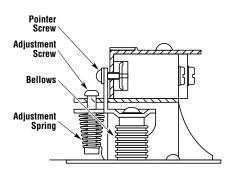
- Small size of instrument makes it easy to install in the field
- On/Off action of the switch is very definite, inherent with the paddle style flow sensor design
- Extremely long life expectancy since the movement of the paddle is transmitted to the switch though through a flexible bellow
- Unitized construction and reduced parts count make it simple to assemble
- ABS case for an attractive design and high corrosion resistance

Operational Description

A reactive force is induced in the paddle in proportion to the rate of flow in the pipe, and the reaction in turn generates a proportional resistance in the control spring.

Thus a variable force balance is maintained between the flow and the control spring until the flow exceeds a set flow rate.

When the flow reaches the set point, the reaction plate activates the microswitch to make or break the contacts.



Hazardous Locations, Intrinsic Safety

SF series switches do not carry hazardous area ratings. SF flow switches can be used with an appropriate intrinsic safety barrier for hazardous locations utilizing the "Simple Apparatus" rules governed by directive NEC504. STI does have in stock intrinsic safety barriers for simple devices.

Customers requiring additional information on electrical requirements for hazardous locations should contact their local electrical fire and building authorities or STI.

SH® F14 STI Automation Products Group www.stiapg.com **USA APG Headquarters** Logan, UT Tel. 1/435/753-7300 1/888/525-7300 UK Sales Office Gloucestershire Tel. +44- (0)1453-544086

European Sales Office Freiburg, Germany Tel. +49-761-455 26 0 Asian Sales Office Singapore Tel. +65 64844001

low sensing

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Mounting Paddle Size Max. Velocity in Pipe (V)

Specifications

Operation Characteristics
Sensitivity Adjustment: By offset and gain
trim potentiometers
Operation Indication: (4) LEDs (Red -
detection of noise. Four red - relay will trip)
Alarm Output: Relay contact rating:
240 V 2 A AC; 30 V 2 A DC (resistive)
Electrical
Power Supply: 22 VDC to 264 VAC inclusive
(50/60 Hz AC) Withstand Voltage 1500 VAC
for 1 min. (between line and output) Insulation
Resistance 500 VDC, 100 M Ohm (between
line and output)
Power Consumption: Approx. 2.5 VA
(at 100 VAC)
Physical
Material: ABS, Polycarbonate PC
Mounting: (2) straps or screws
Wiring: PF1/2 cable gland
Rating: IP54/NEMA 12
Environmental
Operating Temperature Range: 14 to 158°F
(-10 to 70°C)
Operational Humidity: 5 to 85% RH

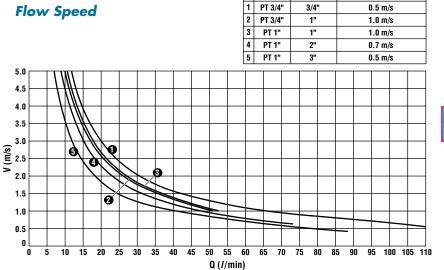
Shock Resistance: 60 to 2000 Hz, 10 g

Specifications are subject to change without notice.

Additional Specifications

Material	SF-3	SF-4
Cover	ABS	ADC12
Bracket	Zinc plated	304 SS
	SS400	
Bellows	PBs 3	PBs 3
Socket	MBs BE2	MBs BE2
Paddle	304 SS	304 SS
Physical Data	SF-3	SF-4
Temp Limits	+80°C	+80°C
Operating	10	10
Pressure	Kgf/cm ²	Kgf/cm ²
Electrical	120/240	120/240
Rating	VAC 5 A	VAC 5 A
Weight, approx.	500 g	1.5 Kg
Construction	Dust	Weather
	Proof	Proof

Relation of Flow Rate and **Flow Speed**



For the Latest Information

Try Our Fax Back System at 1/916/431-6544 On the Internet: www.stiapg.com E-mail: sales@stiapg.com

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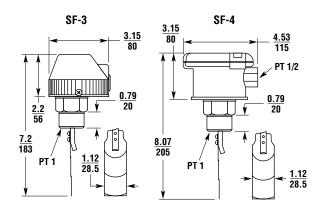
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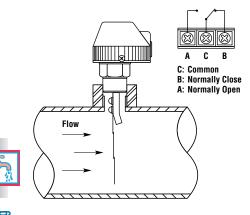


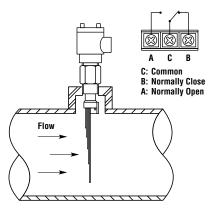
Dimensions — in./mm

SF



Wiring





Ordering Information

	SF			
Enclosu	ıre			
3	Standard type			
4	Weather proof			
Wet Pa	rt Material ———			
Α	MBsBE2 & SUS 304 (Std.)			
В	304 SS			
C	316L SS			
Mounting Size				
1	PT 3/4 in. (std.)			
2	PT 1 in. (std.)			
3	PT 1 1/2 in.			
OP	etc.			
Type of Paddle				
Α	3/4 –1 in. (PT 3/4 in. std.)			
В	1 – 3 in. (PT 1 in. std.)			
C	4 - 6 in.			
OP	etc.			

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