

# FS7-4J,SJ

## Flow Switch



The FS7-4J,SJ flow switch is a paddle type flow switch to be mounted in 1/4 to 6 (B) inch pipe of process pipe run, and is used for a water cut-off relay to detect the water flow or level.

As the flow sensing section is composed of a paddle and a sealed stainless tube with a magnet connected to a micro switch, it is highly sensitive, long life and highly reliable. The settings of switch actuation by the flow rate and no-flow rate can be made with an adjustment screw.

### Specifications

(See below table)

### Selection Guide

Model No.	Description
FS7-4J	Flow switch
FS7-SJ	Flow switch

(Table)

Body/ operating unit	Applicable fluid	Water (non-corrosive)														
Operation & output	ON-OFF (micro switch SPDT contacts)															
Model No.	Wetted area material	Max. pressure	Temperature range				Flow speed				Weight	Color	Mounting			
PS7-4J	Body: Brass Paddle: Phosphate bronze	2MPa	150°C				2m/s max.				3.6kg	Black	R1 1/4 inch tapped body right in the horizontal pipe run			
PS7-SJ	Body: SUS316 Paddle: SUS301	6.9MPa														
Actuation flow rate (standard value)	Pipe size (B)	Flow														
Min. adjustment (Factory set)	Actuation	ℓ /min	18	23	37	57	92	126	168	213	394	696	1094	1465	1942	
		m/s	0.32	0.30	0.29	0.32	0.33	0.26	0.22	0.19	0.20	0.23	0.25	0.27	0.27	
Max. adjustment	Stoppage	ℓ /min	10	13	22	35	58	79	117	184	337	594	935	1223	1620	
		m/s	0.20	0.17	0.17	0.19	0.20	0.16	0.15	0.16	0.17	0.20	0.21	0.23	0.23	
Paddle dimension to use	Actuation	ℓ /min	28	38	60	90	134	232	317	434	795	1397	2203	2850	3777	
		m/s	0.51	0.48	0.46	0.49	0.47	0.48	0.41	0.39	0.41	0.46	0.50	0.53	0.53	
		ℓ /min	22	26	41	64	110	142	192	270	496	874	1374	1874	2483	
		m/s	0.38	0.33	0.32	0.34	0.38	0.29	0.26	0.24	0.26	0.29	0.31	0.35	0.35	
Contact rating (motor duty)	Voltage	Note (1)		For 1 1/4		For 2B		For 3B		For 4B		For 5B		For 6B		
		Load	115Vac		230Vac		115Vdc		230Vdc		115 to 230Vac					
		Full load	7.4A		3.7A		0.3A		0.15A		Pilot load 125VA					
		Locked rotor	44.4A		22.2A											
General	Straight pipe length required for mounting	At least 5 times the pipe sizes required for each upstream and downstream side for mounting														
Accessories	Paddles: 1 1/4B, 6B (For 2 to 16B pipe sizes) Note (1) Note 1: When the pipe sizes are 2, 3, 4 and 5B, trim the paddle of 6B to match these sizes.															

### Dimensions

(unit:mm)

