

# FS8-WJ

## Splash-Proof Flow Switch



The FS8-WJ splash-proof flow switch is a paddle type flow switch for mounting in 1" to 6" (B) pipe size of a process water pipe run and is used for a water cut-off relay to detect the water flow or level.

The flow sensing section is composed of a paddle and a sealed bellows that actuate a microswitch by sensing changes in the flow rate. The settings of switch actuation by the flow rate and no-flow rate can be made with an adjustment screw.

### Specifications

Body/ operating unit	Applicable fluid	Water (non-corrosive)										
	Operation & output	ON-OFF (microswitch SPDT contacts)										
	Model No.	Wetted area material		Max. pressure	Temperature range		Mass		Color	Mounting		
	FS4-WJ	Body: brass Paddle: monel		1.03MPa	0 to 107°C		Approx. 0.9kg		Black	R1 screw thread horizontal mounting in horizontal pipe run		
	Actuation flow rate (standard value)	Pipe size (B)		1	1 1/4	1 1/2	2	2 1/2	3	4	5	6
	Min. adjustment (factory settings)	Actuation	ℓ /min	20	30	35	55	70	95	135	185	230
			m/s	0.55	0.48	0.45	0.39	0.36	0.31	0.27	0.23	0.18
		Stoppage	ℓ /min	15	20	25	35	45	65	105	145	180
			m/s	0.37	0.34	0.31	0.27	0.24	0.21	0.20	0.18	0.16
	Max. adjustment	Actuation	ℓ /min	65	110	140	210	270	330	440	670	920
			m/s	2.0	1.9	1.8	1.6	1.44	1.16	0.90	0.86	0.82
		Stoppage	ℓ /min	55	90	120	180	220	270	400	600	850
			m/s	1.7	1.6	1.5	1.36	1.19	0.95	0.79	0.77	0.75
Paddle dimension to use*			For 1B	32mm	38mm	For 2B	57mm	For 3B	92mm	117mm	143mm	
Contact rating (motor duty)	Voltage		115Vac		230Vac		115Vdc		230Vdc		115 to 230Vac	
	Load		7.4A		3.7A		0.3A		0.15A		Pilot load 125VA	
	Full load		44.4A		22.2A							
	Locked rotor											
General	Straight pipe length required for mounting	At least 5 times the pipe diameter is required on both upstream and downstream sides for mounting.										
	Accessories	Paddles: part No. FS4-15SS for 1, 2, 3 and 6B sizes, and part No. FS4-15RP for 1 and 6B sizes										
	Approval bodies	CSA										

\* The paddles are trimmed to match pipe sizes except those for 1, 2, 3, 4, 5 or 6B.

### Selection Guide

Model No.	Description
FS8-WJ	Splash-proof flow switch, NEMA-4X (IP56)

### Dimensions

(Unit: mm)

