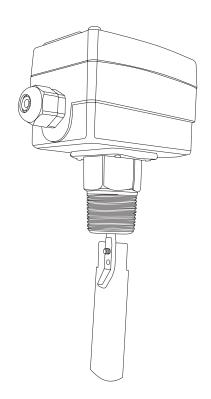
Liquid Flow Switch

LFS-1 Series - Installation Instructions



INTRODUCTION

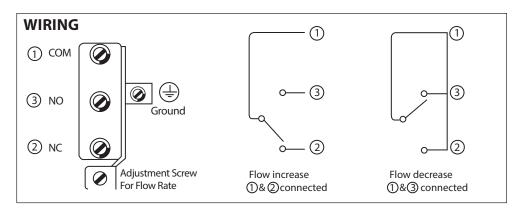
The Liquid Flow Switch is suitable for flow control of water and normal media in industrial plants, heating, air conditioning, and refrigeration systems. With water-proof IP65 enclosure, it includes multiple stainless steel paddle size for pipes up to 203.2mm (8") in diameter. The switch is suitable for liquid temperatures up to 120°C (248°F) and a maximum working pressure of up to 13.5 Bar (195.8 PSI).

MOUNTING

The flow switch is to be installed in any position away from elbows, valves, or any other flow disturbances. with arrow pointing in direction of flow. If pipe is vertical, ecalibrate range to balance paddle weight. If the device is bottom mounted, take care of slag and install in a straight length at least 5 times the pipe diameter away from elbows, valves, etc. both upstream and downstream.

Remove the cover using a Philips screw driver and set it aside to complete the wiring as instructed below.

Once wiring is complete, replace the cover.



LIQUID FLOW RATE

LINE PIPE SIZE (IN)		1	1 1/4"	1 1/2"	2	2 1/2"	3	4	4Z	5	5Z	6	6Z	8	8Z
MINIMUM FLOW	Flow increase	4.2	5.8	7.5	13.7	17.6	27.5	64.7	35.2	12.5	57.01	90.0	74.0	374.7	204.7
GPM (M³/H)	1 & 2 Connected	(1.0)	(1.3)	(1.7)	(3.1)	(4.0)	(6.2)	(14.7)	(8.0)	(28.4)	(12.9)	(43.1)	(16.8)	(85.1)	(46.5
	Flow Decrease	2.5	3.7	5.0	13.7	11.9	19	50.1	26.9	101.1	41.0	158.0	54.0	319.7	170.0
	1 & 3 Connected	(0.6)	(0.8)	(1.1)	(2.2)	(2.7)	(4.3)	(11.4)	(6.1)	(22.9)	(9.3)	(35.9)	(12.3)	(72.6)	(38.6)
MAXIMUM FLOW	Flow Increase	9.2	13.3	17.6	26.9	30.8	50.2	127.6	81.0	245.0	18.0	374.7	144.0	759.5	415.0
GPM (M³/H)	1 & 2 Connected	(2.1)	(3.0)	(4.)	(6.1)	(7.0)	(11.4)	(29.0)	(18.4)	(55.6)	(18.4)	(85.1)	(32.7)	(172.5)	(94.2)
	Flow Decrease	8.1	12.5	16.3	25.1	28.6	471	122.0	76.2	234.7	111.0	359.7	134.7	729.6	400.6
	1 & 3 Connected	(1.9)	(2.8)	(3.7)	(5.7)	(6.5)	(10.7)	(27.7)	(17.3)	(53.3)	(25.2)	(81.7)	(30.6)	(165.7)	(90.8)

SPECIFICATIONS

JI ECII ICALIONS	
Type of Operation	.On/Off, single-stage, micro switch
Output	.SPDT 15 (8A) 24/250 Vac
Flow Rates	.See flow rate table
Flow Rate Setting Adjustment	.Internal screw
Sensing Element	.Stainless steel paddle
Typical Liquid Applications	.Hot, chilled, well, pool and sea water,
	brine or ethylene glycol
Process Connection	
Parts Material in Contact with Fluid	.Brass
Paddle Material	.Stainless steel
Liquid Temperature	
Ambient Operating Range	
	10 to 90 %RH, non-condensing
Cable Entry	
Enclosure	
	98mm H x 70mm D x 65mm W
	(3.85" x 2.75" x 2.55")

PADDLE SIZES					
Pipe	Number				
1"	1				
1 1/4"	1				
1 1/2"	1				
2"	1, 2				
2 1/2"	1, 2				
3"	1, 2, 3				
4"	1, 2, 3				
4" Z	1, 2, 3, 4				
5"	1, 2, 3				
5" Z	1, 2, 3, 4				
6"	1, 2, 3				
6" Z	1, 2, 3, 4				
8"	1, 2, 3				
8" Z	1,2, 3, 4				

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DIMENSIONS

