

Description

The flow switch serie FL is designed for controlling flow rates in pipes and ducts employed in HVAC applications from 3/8" up to 2". In particular for monitoring flow of liquid media, pumps in oil circulation, cooling and lubrication systems, heat exchangers, compressors and is used as flow control device or as water failure protection switch.

Technical specifications

Flow rate	See schedule	
Switching output	Dustproof microswitch SPDT contact	
Electrical rating	3 A, 250 V AC; 5 A, 125 V AC	
Lifetime	100.000 cycles at nominal load	
Electrical connection	DIN 43650A connector	
Max. pressure	25 bar	
Average pressure loss	0.01 bar at Q max	
Hysteresis	min. 0,7 l/min.	
Housing	ABS, black	
Connection	Female thread T-fitting	
Body and lever material	Nickel plated brass	
Paddles material	Stainless steel Aisi 316L	
Dimensions	See drawing	
Weight	See schedule	
Protection type	IP65	
Protection class	1	
Max. pipe temperature	-20+110°C	
Working humidity	1095% RH, non-condensing	
Working temperature	-40+90°C	
Storage temperature	-40+90°C	
Installation	Horizontal or vertical, shall be installed far from elbow. If pipe is vertical, recalibrate range to balance paddle ted take care to slags, and apply it in a straight pipe fa	

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Horizontal or vertical, shall be installed far from elbows or throttlings, with arrow on flow direction. If pipe is vertical, recalibrate range to balance paddle weight. If the device is downwards mounted take care to slags, and apply it in a straight pipe far from filters, valves, etc with length at least 5 times the diameter of pipe upstream and downstream the unit.

Standards

CE conformity, RoHS

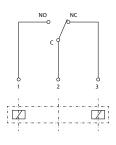
Models	Connection	Flow rate I/min H ₂ O	Max. recommended flow rate l/min H_2O
FL10	G 3/8	4.4 (3.7) - 5.9 (5.1)	10
FL15	G 1/2	4.4 (3.7) - 5.9 (5.1)	20
FL20	G 3/4	9.4 (8.0) - 12.8 (10.8)	40
FL25	G 1	14.7 (12.5) - 19.9 (16.9)	60
FL32	G 1 1/4	24.1 (20.5) - 32.7(27.8)	80
FL40	G 1 1/2	37.7 (32.1) - 51.0 (43.4)	100
FL50	G 2	59.0 (50.1) - 79.8 (67.8)	150

Note: The flow rate values indicate operating point. The values between the brackets indicate reset point and were measured by mounting the flow switch with the body horizontally.

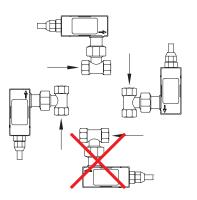


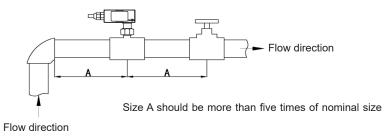


Electrical wirings



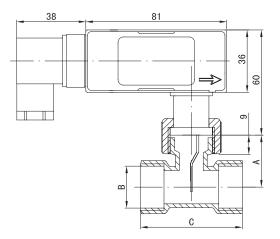
Installation





Attention: the flow direction should be the same as the arrow direction, do not pull the black plastic shell.

Dimensions (mm)



A mm	B mm	C mm	Weight kg
28	G 3/8	58	0,33
28	G 1/2	58	0,30
28	G 3/4	58	0,32
34	G 1	58	0,40
34	G 1 1/4	72	0,47
34	G 1 1/2	72	0,57
46	G 2	72	0,72

