Liquid flow switch



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

3 A, 250 V AC; 5 A, 125 V AC Electrical rating

100.000 cycles at nominal load Lifetime

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

IP65 **Protection type**

Protection class

-20 ...+110°C Max. pipe temperature

Working humidity 10...95% RH, non-condensing

-40 ...+90°C Working temperature -40 ...+90°C Storage temperature

Installation Horizontal or vertical, shall be installed far from elbows or throttlings, with arrow on flow direction.

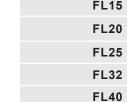
If pipe is vertical, recalibrate range to balance paddle weight. If the device is downwards mounted take care to slags, and apply it in a straight pipe far from filters, valves, etc with length at least

5 times the diameter of pipe upstream and downstream the unit.

Standards CE conformity, RoHS

Models	Connection	Flow rate l/min H₂O	Max. recommended flow rate I/min H ₂ O
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

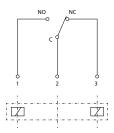
Note: The flow rate values indicate operating point. The values between the brackets indicate reset point.



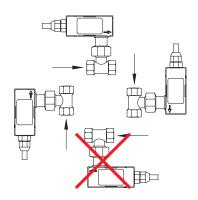


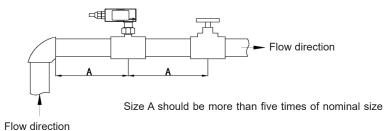


Electrical wirings



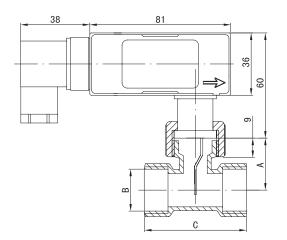
Installation





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