APPLICATION AND OPERATION

FLU is a flow switch which interrupts the electric control circuit of the burner when there is insufficient water circulation in the boiler circuit owing to some abnormal condition (e.g. stopping of the motor -driven pump).
The **FLU** flow switch is operated thanks to an electrical blade-type tripping device (stainless steel blade) and can be installed on pipework from 1" to 8" in size.

FLU

Flow switch for liquids, for piping from 1" to 8".

Part No.	Size	Protection
0401125	**1”**	**IP64**
0401126	**1”**	**IP67**

INSTALLATION

Mount so that the direction indicated by the arrow coincides with the flow.
For correct operation it is advisable:

- to mount on the return pipe

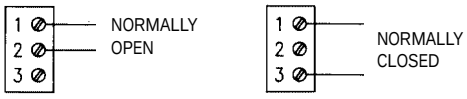
- to mount on horizontal pipe (mounting on vertical piping is possible after appropriate setting)

- to keep a certain distance from sources of turbulence (elbows, valves, etc.); recommended min. distance is equal to 5 times the pipe diameter

- to keep a minimum distance of 55 mm between the pipework and the lower base of the appliance.

ELECTRICAL CONNECTIONS

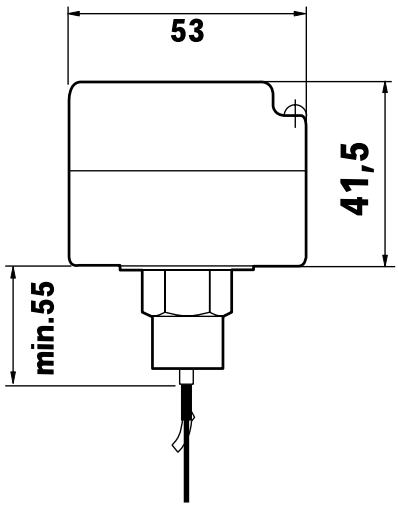
The 1-2 contact is normally open (closes when the flow rate setting is reached); contact 1-3 is normally closed (opens when the flow rate setting is reached). Earth connection is through relative screw located at the bottom on the microswitch support.



APPROVALS

Conformity with Body R of I.S.P.E.S.L. regulations CE mark in conformity with European Directives EEC 89/336, EEC 73/23.

Overall dimensions (mm)



ADJUSTMENT OF FLOW RATE SETTING

Setting of **FLU** is by means of relative screw; fully tighten the screw to obtain minimum flow rate setting, fully loosen the screw to have maximum flow rate setting. The following table gives the values for limiting flow rate settings in m^3/h in relation to the pipe diameter. The **FLU** flow switch is supplied with the setting screw fully tightened (minimum setting).

Pipe diameter inches	Blade length mm	Flow rate with minimum setting (screw fully tightened) m^3/h		Flow rate with maximum setting (screw fully loosened) m^3/h	
		close	open	close	open
1”	34	**0,9**	0,4	2,0	1,5
1” 1/4	34	**1,2**	0,6	2,6	1,9
1” 1/2	57	**1,6**	0,9	3,3	2,6
2”	57	**3,2**	2,3	7,1	5,1
2” 1/2	88	**4,2**	3,5	8,0	7,0
3”	88	**6,3**	5,7	12,0	10,5
4”	88	**13,5**	12,0	28,0	26,0
4”	167	**8,0**	7,1	20,0	18,0
5”	88	**27,0**	23,0	60,0	58,0
5”	167	**12,1**	9,0	30,0,	28,0
6”	88	**43,0**	36,0	91,0	37,0
6”	167	**17,2**	12,0	35,0	32,0
8”	88	**85,0**	73,0	176,0	170,0
8”	167	**42,0**	36,0	90,0	85,0

For applications in heating systems subject to I.S.P.E.S.L. approval in accordance with the requirements of Body R, where a safety action is requested (switching off of the motor-driven pump under an abnormal condition), it is advisable to leave the setting at minimum, bearing in mind that the device acts on the burner when the flow rate drops below the value given in the bold-face column.

DESIGN FEATURES

Casing and cover	Die-cast aluminium
Bellows	Phosphor bronze
Blade	Stainless steel (*)
Fitting	Brass, 1" M

(*) Blade length varies according to the pipe diameter (see table)

TECHNICAL CHARACTERISTICS

Contact load rating	6 (2) A at 250 V ~ at 50 Hz
Max. fluid pressure	10 bar
Max. fluid temperature	110°C
Max. room temperature	60°C
Degree of protection	IP 64 for Art. 0401125 IP67 for Art. 0401126

(*) also available in the version with microswitch 20 (8) A at 250 V ~.