

APPLICATION AND USE

The Y106 water flow switch is designed to monitor water flow in pipe diameters from 1" up to a maximum of 8" and it is factory set at a minimum cut-in value (see table). The switching value can be increased as required. The water flow switch can not be mounted in a short necked welding socket or in a tee with a short branch. It is not possible to use a swept tee as this will interfere with paddle movement. The switches are SPDT types.

TECHNICAL CHARACTERISTICS

Type of operation	On/Off,
Pipe connection:	1" - 1 1/2 NPT
Max operating pressure	13,5 bar
Sensor:	Stainless steel paddle
Cover:	Impact resistant plastic, Fire resistance ABS or PC
Cable gland entry:	M18 x 1,5 (included)
Flow rate setting adjustment:	Internal screw
Liquid temperature:	-20°C~120°C
Allowed ambient temperature:	-40°C~85°C
Allowed ambient humidity:	10..90%RH, non condensing
Liquid application:	hot, chilled, well, pool and sea water, brine or ethylene glycol
Contact:	Single Pole Double Throw (SPDT)
Protection degree:	IP65
Contact rating:	15A resistive, 8A inductive 24÷250Vac
Weight:	1 Kg

INSTALLATION

WARNING

ISOLATE ALL WIRING BEFORE REMOVING THE COVER AS HIGH VOLTAGE IS PRESENT AT THE TERMINALS.

Select a point in the pipe that has no elbows, bends or other obstructions that may cause turbulence. The pipe must be straight for at least 5 times the pipe diameter both up and downstream of the flow switch.

The flow switch should be mounted in a horizontal pipe. Do not mount the flow switch directly under the pipe. If the flow switch is mounted in a vertical section of pipe the registered value will be different from the real one because of the paddle weight.

Install on the flow switch one or more paddles according to the pipe diameter (look at the table "Install paddle"). For 4",5",6" or 8" pipes, in case lower flow rates are required, you need to install also the paddle nr. 4, conveniently trimmed; the values of the reduced flow rate are shown in the column "Pipe diameter" of the calibration table with the suffix "Z".

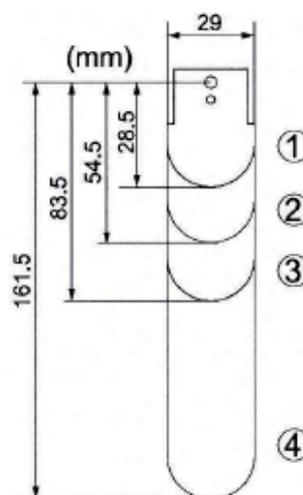
REGULATION REFERENCE

The product complies with the following standards: EN60947-1:2004 (clause 7,3,8,4)



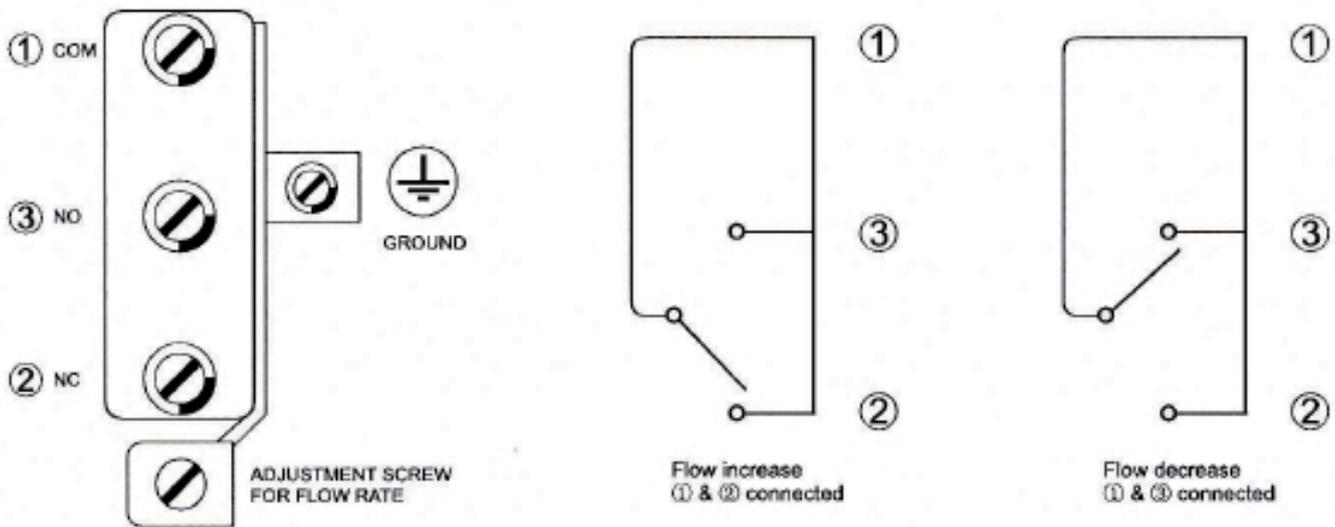
CALIBRATION

Pipe diameter (")	Min, cut-in value m3/h	Min, cut-out value m3/h	Max, cut-in value m3/h	Max, cut-out value m3/h
1	1	0,6	2,1	2
1,25	1,3	0,8	3	2,8
1,5	1,7	1,1	4	3,7
2	3,1	2,2	6,1	5,7
2,5	4	2,7	7	6,5
3	6,2	4,3	11,4	10,7
4	14,7	11,4	29	27,7
4"Z	8	6,1	18,4	17,3
5	28,4	22,9	55,6	53,3
5"Z	12,9	9,3	18,4	25,2
6	43,1	35,9	85,1	81,7
6"Z	16,8	12,3	32,7	30,6
8	85,1	72,6	172,5	165,7
8"Z	46,5	38,6	94,2	90,8

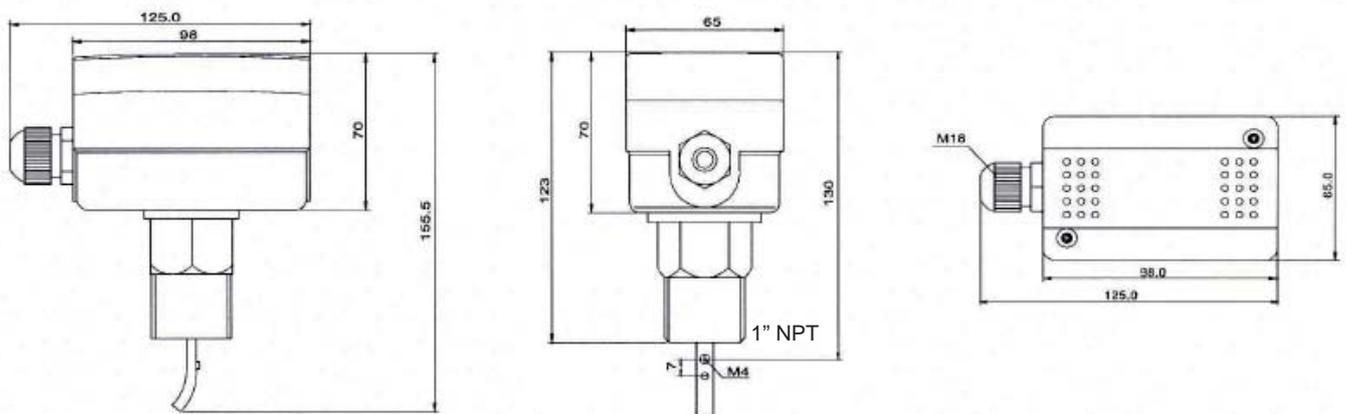


Install paddle	
Ø pipe	No.
1"	1
1"1/4	1
1"1/2	1
2"	1 and 2
2"1/2	1 and 2
3"	1,2 and 3
4"	1,2 and 3
4"Z	1,2,3 and 4
5"	1,2 and 3
5"Z	1,2,3 and 4
6"	1,2,3
6"Z	1,2,3 and 4
8"	1,2,3
8"Z	1,2,3 and 4

WIRING DIAGRAMS



OVERALL DIMENSIONS (mm)



The performances stated in this sheet can be modified without any prior notice due to design improvements