

FSP10

FLOW SWITCH FOR DIRECT SWITCHING OF PUMP



The FSP10 is designed for directly controlling an electric pump that is providing increased pressure or flow within water systems that are gravity fed from storage tanks. The device has to be fitted in the pipe above the pump.

The FSP10 starts up the pump when the flow rate through the device exceeds 0.6 l/min, so giving an increased flow and pressure, dependent on the pump capacity.

A flow of less than 0.6 l/min, or 3.0 l/min depending on version, whether due to a lack of supply (e.g. tank empty) or to a decrease in demand (e.g. tap closing), will turn the pump off again.

Features

- Direct switching of pumps up to 4A inductive
- 0.6 l/min or 3.0 l/min turn on flow rate
- Automatic shut down on flow stop
- Supply and pump electrical connections terminated within case with cable glands at entry
- 1" BSP pipe connections

SPECIFICATIONS

Technical

			FSP10A06		FSP10A30
Flow Tube Material				Brass	
Enclosure Material				Polyamide	
Enclosure Rating				IP54	
Start Up Flow Rate	Q. min	l/min	0.6		3.0
Max Flow Rate	Q. max	l/min		80	
Max Pressure	P max	bar		8	
Max Temperature	T max	°C		85	
Pipe Connections		BSP		1"	

Electrical

Supply Voltage	Vac	250
Switching Voltage Max	Vac	250
Switching Power Max	kW	1
Switching Current Max	A	10 for resistive load 4A for motor load

STANDARD PARTS

	On Flow Rate	Max Power	Max Pump Current
FSP10A06	0.6 l/min	750	4A
FSP10A30	3.0 l/min	750	4A

INSTALLATION

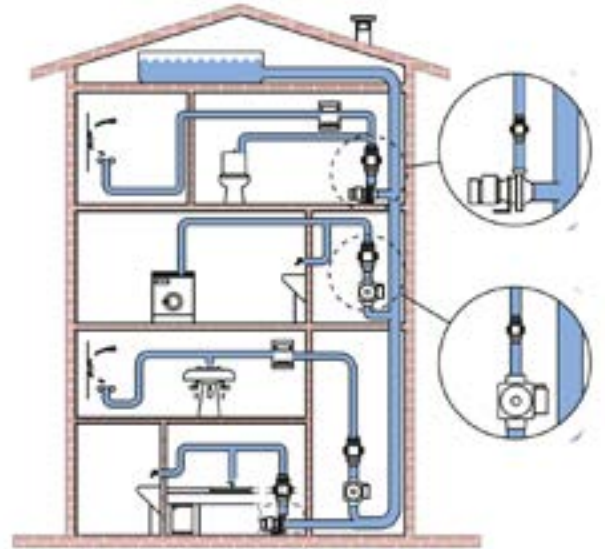
The flow switch must be mounted vertically with the flow direction upwards. Pipe connection is G1" (1" BSP). The device relies on the flow of liquid working in opposition to gravity to operate the relay.

The liquid flow moves a plunger inside the brass flow tube, when the flow increases beyond the minimum specified level. A magnet inside the plunger closes a magnetic switch in the control circuit, so causing this to operate the output relay. The output relay will be de-energized, if the flow drops below the specified level and the plunger has returned to the lower position.

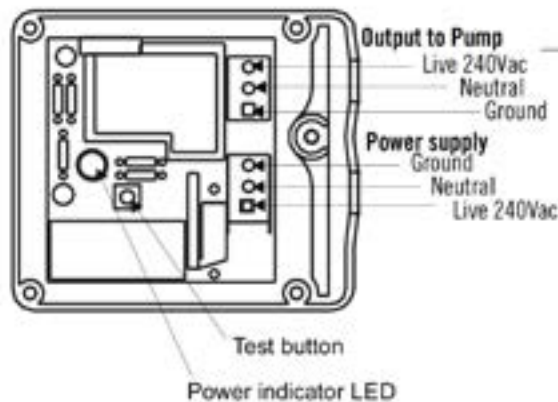
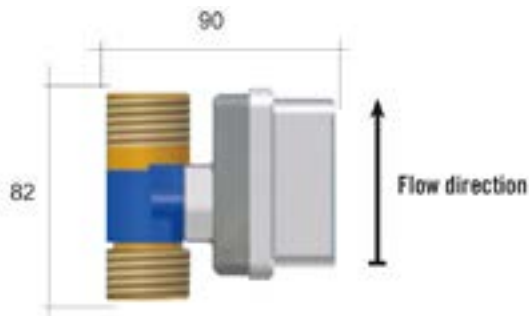
The output relay will be energized, if the test button is pushed.

The unit can only operate on a supply voltage of 240Vac.

The output is a SPCO electromechanical relay with contacts rated to 10(4) A 250Vac.



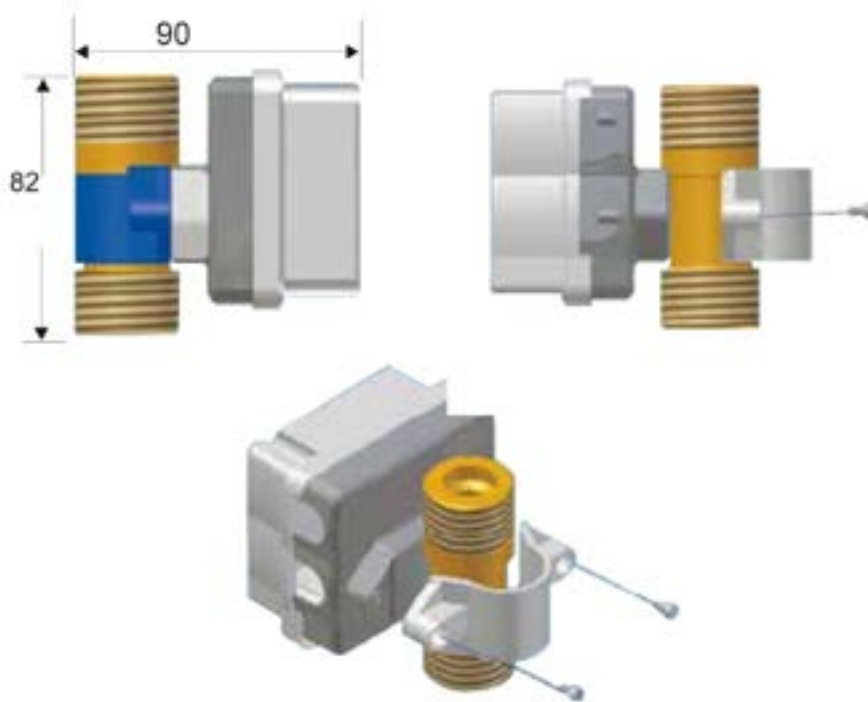
Only for vertical installation





DIMENSIONS

All dimensions are in millimeters.



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