

# SFC

## Liquid flow switch



*SFC is a series of compact electromechanical flow switches for use in heating and cooling systems.*

- Compact case
- Fits pipe sizes ranging from DN32 to DN200
- Contact rating 5 A, 250 VAC or 0.1 A, 30 VDC
- Protection class IP65
- Easy to install

### Function

The SFC range of flow switch is intended for flow control of water or water with glycole. They have a built-in safety switch with an alarm signal for flow shortage signalling.

### Application

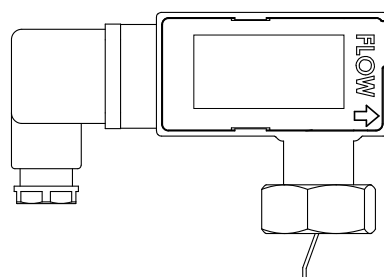
SFC is well-suited for pipes used in general industrial plants, such as:

- Heating and air conditioning systems
- Refrigeration systems
- Sprinkler or anti-fire systems
- Heat pumps

### Installation

The flowswitch must be installed in a horizontal position. It must be fitted far from any pipe elbows or choke points. If the paddle is located close to the bottom of the pipe, care

should be taken to ensure that the pipe is free from slag. The device should be mounted so that the arrows match the flow direction of the media inside the pipe (fig. 1).



**fig.1.**

If fitted for downward flow, SFC must be installed in a straight pipe, far from any filters or valves, etc. An unimpeded length of pipe at least 5 times the pipe diameter must be available both upstream and downstream of the unit. Note: If the flow switch is used as a minimum flow controller, it is necessary to add another device downstream of the first one for alarm condition activation.

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SFC

## Technical data

Pressure max.	PN25
Contacts	Dust-tight microswitch with switching contacts (NC/NO)
Switch capacity	5 A, 250 V AC or 0.1 A, 30 V DC
Operating temperature	-20...+70 °C
Humidity	< 95% r.h.
Media temperature	-20...90°C
Paddles	Stainless steel, AISI 304
Plug connector	Complete connector (male + female) DIN 43650-A, ISO 4400, EN 175301-803 form A
Casing	ABS grade UL94 V-0
Body	Brass
Protection class	IP65
Dimensions (mm)	31 x 103.6 x 61.8

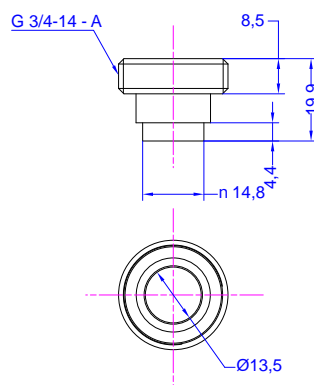


This product carries the CE-mark. More information is available at [www.industrietechnik.it](http://www.industrietechnik.it)

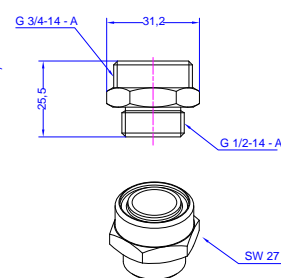
## Code selection table

SFC-	Contact rating	Pipe fitting
5 A, 250 V AC	H	
0.1 A, 30 V DC	L	
Nut, 3/4" female screwed		0
Nipple type "1" to soldering (fig. 2)		1
Nipple type "2" to screw in 1/2" female pipe access (fig. 3)		2
Tee fitting DN32 (1"1/4 female)		3
Tee fitting DN40 (1"1/2 female)		4
Tee fitting DN50 (2" female)		5

Nipple type "1" to soldering. fig.2.



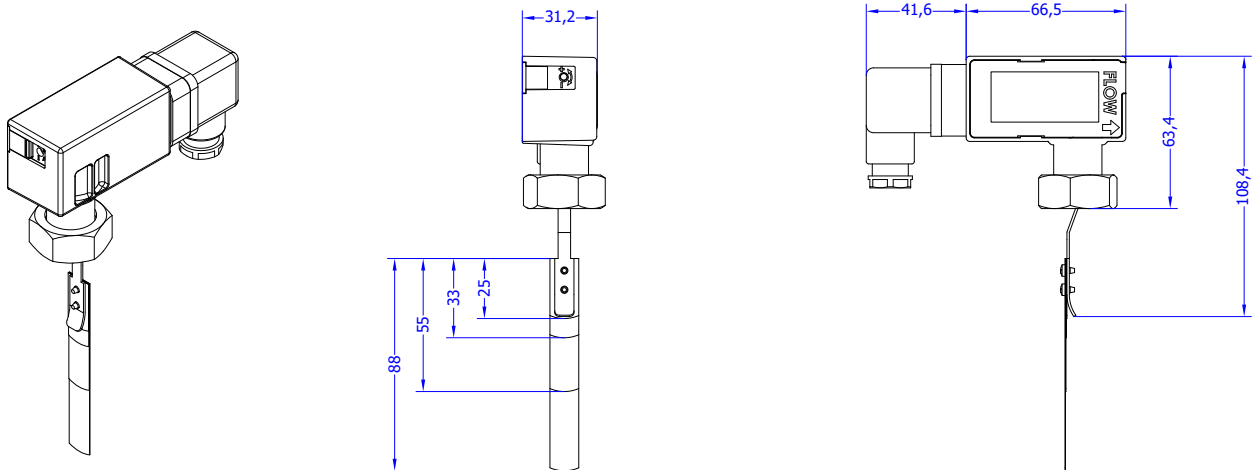
Nipple type "2" to screw in 1/2" pipe access. fig.3.



## Liquid flow rate

Pipe DN	l/ min								Q max
	Paddle 1		Paddle 1 & 2		Paddle 1,2 & 3		Paddle 1, 2, 3 & 4		
	increasing	decreasing	increasing	decreasing	increasing	decreasing	increasing	decreasing	
32	26.8	20.1							97
40	51.2	40.9	39.2	28.7					150
50	108.3	69.6	71.7	53.2					234
65	187.7	170.9	153.5	130.5	93.6	71.8			398
80	272.9	253.9	233.4	206.4	153.8	121.0			600
100	430.0	365.0	138.3	118.3	55.0	46.7	38.3	33.3	942
125	591.7	503.3	195.0	165.0	85.0	71.7	51.7	43.3	1471
150	826.7	703.3	246.7	210.0	103.3	88.3	66.7	56.7	2118
200	1470.0	1250.0	438.3	373.3	183.3	156.7	118.3	100.0	3720

## Dimensions

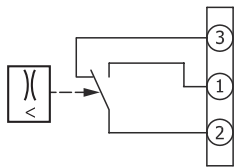


**fig.4.**

[mm], unless otherwise specified

## Wiring

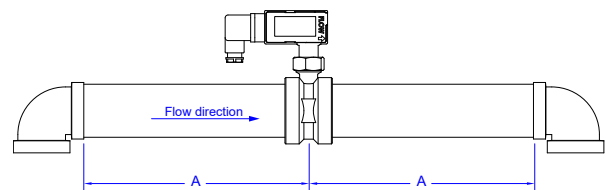
The microswitch contact "2" (common) and "1" (normally open). Open when the value drops below the set switch-off value. The contact "3" (normally closed) can be used as a signal contact (fig.5).



**fig.5.**

## Installation

Pipe length (A) must be more than five times of pipe diameter (fig. 6).



**fig.6.**

## Documentation

All documentation can be downloaded from [www.industrietechnik.it](http://www.industrietechnik.it).

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