

Flow switch for liquid media, SF

Product picture:



Dimensioned drawing:

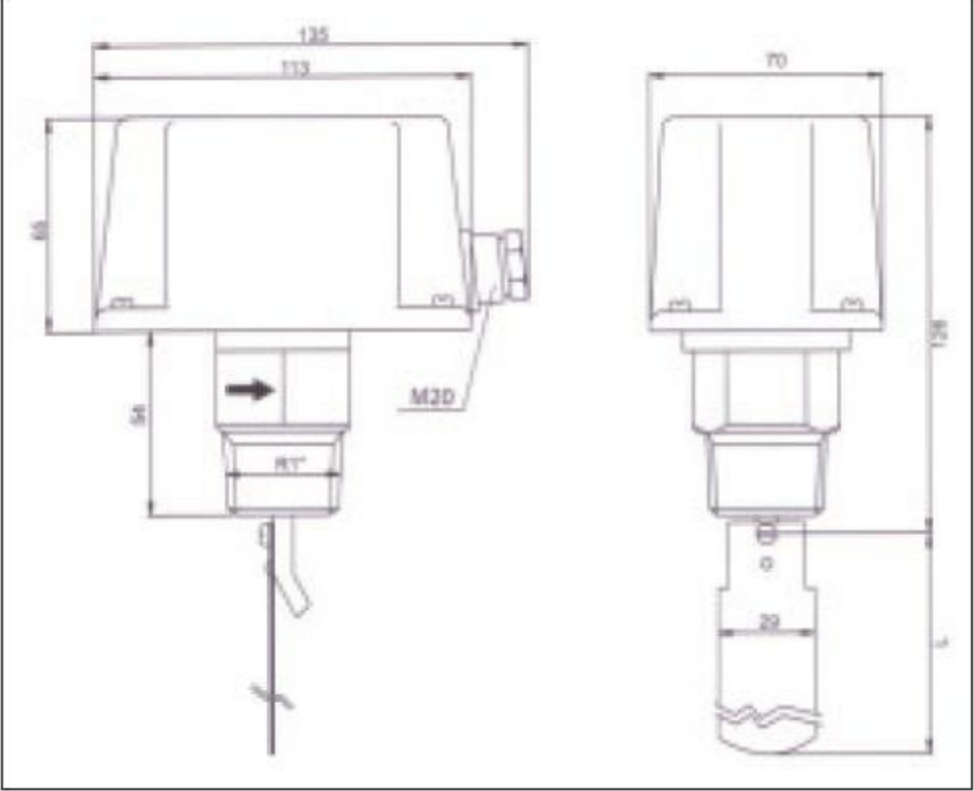
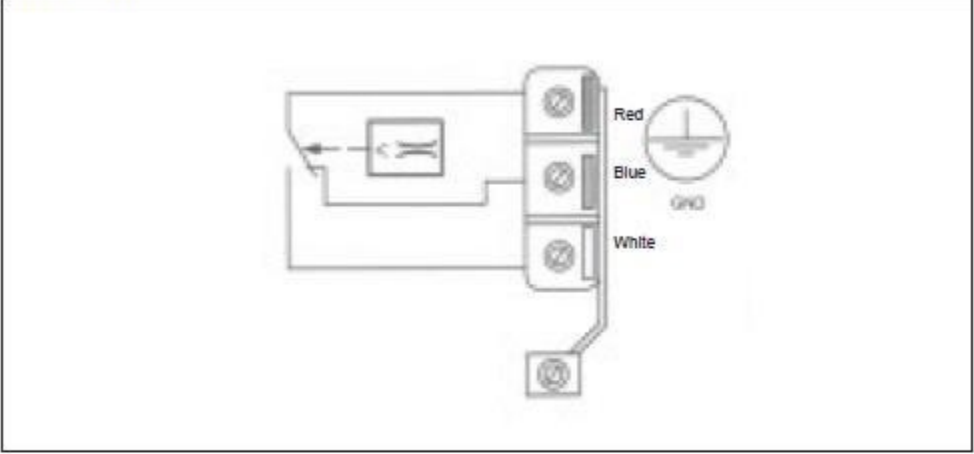


Diagram:



Technical data:

Switching capacity:15 (8) A; 24...250V AC
Contact:dustproof capsuled
.....micro-switch as SPDT
Casing:.....ABS added with glas fiber,
.....grey
Casing temperature:-40...+85°C (optional up to +140°C)
Medium temperature:max. 120°C
Paddle:.....V4A
Protection class:.....IP65
Safety class system:.....I
Testing:TÜV after flow 100,
.....(SF-1E: S.99-026,
.....SF-2E: S.97-026)

Installation:

Installation vertical in a horizontal pipe. Flow-calming section min. 5-times of the pipe diameter for and behind the paddle.

Application:

For the flow monitoring in liquid media in pipes and for hydraulic systems of 1/2" bis 8" diameter. It can also be used as water failure protection or in pumps and cooling system.

Function:

Contact red-white opens when flow rate drops to the preset value. At the same time contact red-blue closes and can be used as singnal contact. The device is factory-set to the min. switch-off value. Which can be increased by turning the adjusting screw clockwise.

Pipe DN	Type	Max. working pressure	Medium normal	Medium aggressive	incl. built-in T-piece	Tüv certificated
1-8"	SF-1E	11 bar	X			X
1-8"	SF-1EPL	11 bar	X			X
1-8"	SF-1REPL	11 bar	X			
1-8"	SF-2EPL	30 bar		X		
1-8"	SF-2REPL	30 bar		X		
1/2"	SF-3EPL	11 bar	X		X	
3/4"	SF-4EPL	11 bar	X		X	
3/8"	SF-5EPL	11 bar	X		X	

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Switching value table SF-1EPL / SF-2EPL		
Pipe	Factory setting out (on)	max. Setting out (on)
DN	m ³ /h	m ³ /h
1"	0,6(1,0)	2,0(2,1)
1 1/4"	0,8(1,3)	2,8(3,0)
1 1/2"	1,1(1,7)	3,7(4,0)
2"	2,2(3,1)	5,7(6,1)
2 1/2"	2,7(4,0)	6,5(7,0)
3"	4,3(6,2)	10,7(11,4)
4"	11,4(14,7)	27,7(29,0)
4"Z	6,1(8,0)	17,3(18,4)
5"	22,9(28,4)	53,3(55,6)
5"Z	9,3(12,9)	25,2(26,8)
6"	35,9(43,1)	81,7(85,1)
6"Z	12,3(16,8)	30,6(32,7)
8"	72,6(85,1)	165,7(172,5)
8"Z	38,6(46,5)	90,8(94,2)

Switching value table SF-3EPL / SF-4EPL / SF-5EPL / SF-6EPL		
Pipe	Factory setting out (on)	max. Setting out (on)
DN	m ³ /h	m ³ /h
1/2"	0,174(0,48)	0,846(0,948)
3/4"	0,138(0,408)	0,768(0,858)
1"	0,2(0,6)	1(1,1)
1 1/4"	0,25(0,9)	1,4(1,6)
1 1/2"	0,5(1,2)	1,6(2,2)
2"	0,9(2,3)	3,6(4,1)
3"	2,1(4,9)	7,4(8,2)

Switching value table SF-1REPL / SF-2REPL		
Pipe	Factory setting out (on)	max. Setting out (on)
DN	m ³ /h	m ³ /h
1"	0,2(0,6)	1,0(1,1)
1 1/4"	0,25(0,9)	1,4(1,6)
1 1/2"	0,5(1,2)	1,6(2,2)
2"	0,9(2,3)	3,6(4,1)
2 1/2"	1,2(3,1)	4,9(5,5)
3"	2,1(4,9)	7,4(8,2)
4"	4,9(11,3)	17,1(19,1)
4"Z	3,3(7,7)	11,6(13,0)
5"	9,7(22,4)	34,0(37,9)
5"Z	5,0(11,5)	17,5(19,6)
6"	13,6(31,5)	47,6(53,2)
6"Z	6,1(14,1)	21,4(23,9)
8"	25,7(59,6)	90,1(100,7)