

LUFTKVALITETS- & FLOWFØLERE



FLWSWITCHE

Vane switch, mechanical, with paddle, with switching output

Mechanical wind vane switch **RHEASREG® WFS** with switching output, in an impact-resistant plastic housing, with stainless-steel paddle, for flow monitoring of gaseous, non-aggressive media.

The flow sensor is used as a flow controller or air flow monitor in air conditioning ducts, in air intake or exhaust devices of ventilators or electric heating registers (also for contaminated, oily air).

TECHNICAL DATA

Switching capacity: (Contact load)	15 (8) A; 24...250 V AC at 24 V AC min. 150 mA
Contact:	dustproof microswitch as single-pole, potential-free changeover contact
Housing:	plastic, UV-resistant, material polyamide, 30 % glass-globe reinforced, colour traffic white (similar to RAL 9016)
Housing dimensions:	108 x 70 x 73.5 mm (Thor2)
Base body:	galvanised steel
Moving arm:	brass
Vane:	stainless steel V2A (1.4301)
Cable connection:	cable gland , plastic (M20 x 1.5; with strain relief, exchangeable, inner diameter 8 - 13 mm)
Housing temperature:	-40...+85 °C
Operating difference:	≥ 1 m/s
Electrical connection:	0.14 - 1.5 mm ² , via screw terminals
Protection class:	I (according to EN 60 730)
Protection type:	IP 65 (according to EN 60 529)
Standards:	CE conformity, EMC directive 2014 / 30 / EU, low-voltage directive 2014 / 35 / EU

FUNCTION

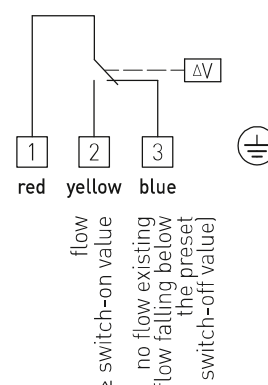
Monitor:	Contact 1 - 3 breaks when flow rate drops to the preset value. Simultaneously, contact 1 - 2 closes and can be used as signal contact. Device is factory-set to the minimum switch-off value, which can be increased by turning the range adjusting screw clockwise.
Installation:	vertical in horizontal air ducts. Min. smoothing distance = 5 x duct diameter upstream and downstream of vane. For airspeeds > 5 m/s, vane is to be trimmed at the marked spots. Thereby the minimum switch-off value increases to approx. 2.5 m/s and the minimum switch-on value to approx. 4 m/s.

WFS



Connecting diagram

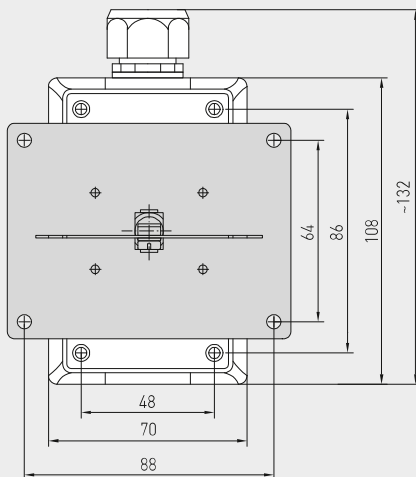
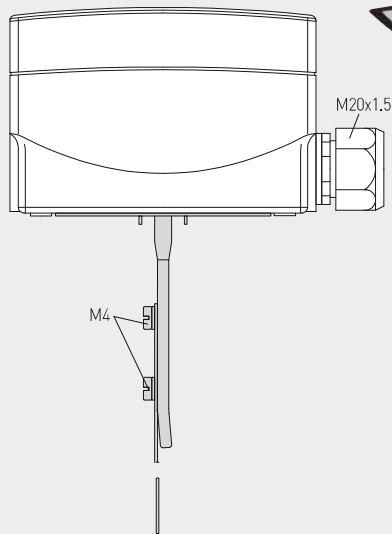
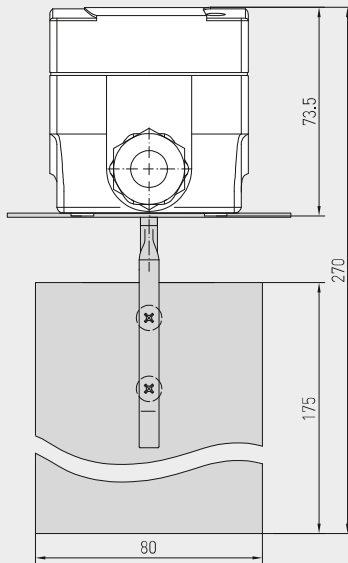
WFS



Dimensional drawing

WFS

WFS



RHEASREG® WFS Vane switch, mechanical, with paddle

Type / WG01	Switch-on value		Switch-off value		Item No.	Price
	min.	max.	min.	max.		
WFS						
WFS-1E	2,5 m/s	9,2 m/s	1 m/s	8 m/s	1702-3020-0000-000	76,78 €
Spare part						
PWFS-08	Spare paddle for WFS (Stainless steel vane)				7700-0010-2000-000	17,72 €

Flow monitors, mechanical, with paddle, with switching output

Mechanical paddle flow monitor **RHEASREG® SW** with switching output, in an impact-resistant plastic housing, with stainless-steel paddle, for flow monitoring of liquid and gaseous, non-aggressive media in pipes, hydraulic systems of 3/4" through 1/2" to 8" diameter.

The flow sensor is used as a flow controller or low water alarm, e. g. for pumps in oil and cooling circuits, cooling systems, evaporators, compressors and heat exchangers, with brass or stainless-steel bodies.

TECHNICAL DATA

Switching capacity:	15 (8) A; 24...250 V AC, at 24 V AC min. 150 mA
Contact:	dustproof microswitch as potential-free single-pole changeover contact
Housing:	plastic, UV-resistant, material polyamide, 30% glass-globe reinforced, colour traffic white (similar to RAL 9016)
Housing dimensions:	108 x 70 x 73.5 mm (Thor2)
Base body:	galvanised steel
Screwed socket:	brass or stainless steel (see table)
Paddle:	stainless steel V4A (1.4401)
Cable connection:	cable gland , plastic (M20 x 1.5; with strain relief, exchangeable, inner diameter 8 - 13 mm)
Housing temperature:	-40...+85 °C
Max. temperature of medium:	+120 °C
Electrical connection:	0.14 - 1.5 mm ² , via screw terminals
Protection class:	I (according to EN 60 730)
Protection type:	IP 65 (according to EN 60 529)
Standards:	CE conformity, EMC directive 2014/30/EU, low-voltage directive 2014/35/EU

FUNCTION

Monitor:	Contact COM – NO (red – yellow) breaks when flow rate drops to the preset value. Simultaneously, contact COM – NC (red - blue) closes and can be used as signal contact. Device is factory-set to the minimum switch-off value, which can be increased by turning the range adjusting screw clockwise.
Installation:	vertical in horizontal pipes, tee R x" according to DIN 2950, min. smoothing distance = 5 x pipe diameter upstream and downstream of paddle

Table of switching values

Pipe Ø DN in inches	Factory Setting OFF / ON (m ³ /h)	Max. Setting OFF / ON (m ³ /h)
SW-1 / SW-2		
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
SW-3 / SW-4		
1/2"	0.174 / 0.48	0.846 / 0.948
3/4"	0.138 / 0.408	0.768 / 0.858

SW

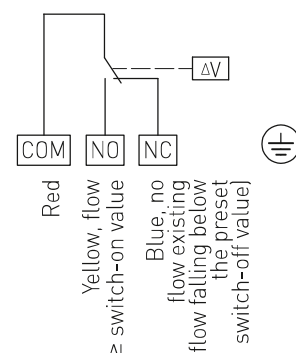


SW - 3E
SW - 4E

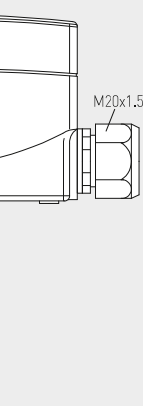
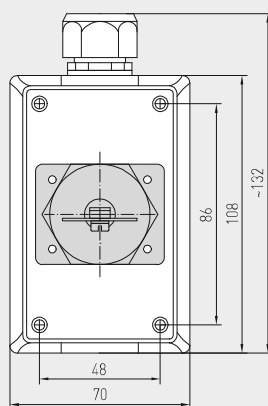
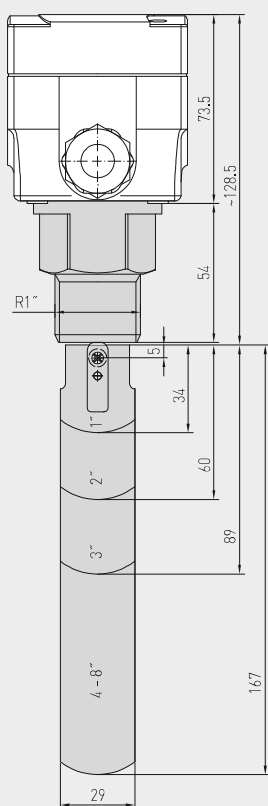
Incl. attached Tee Fitting
according to DIN 2950

Connecting diagram

SW



Dimensional drawing

SW
PSW-09

PSW-09

Set of stainless steel
paddles (Spare part)

Pipe diameters with paddle combinations

Pipe Ø DN		Paddle combination PSW-09
1/2"	15 mm	1
3/4"	20 mm	1
1"	25 mm	1
1 1/4"	32 mm	1
1 1/2"	40 mm	1
2"	50 mm	1, 2
2 1/2"	65 mm	1, 2
3"	80 mm	1, 2, 3
4" Z	100 mm	1, 2, 3 plus 4 (shorten to 92 mm)
5" Z	125 mm	1, 2, 3 plus 4 (shorten to 117 mm)
6" Z	150 mm	1, 2, 3 plus 4 (shorten to 143 mm)
7 - 8" Z	200 mm	1, 2, 3 plus 4 (unshortened)

RHEASREG® SW Flow monitors, mechanical, with paddle

Type / WG01	Pipe Ø DN	Max. Operating Pressure PN max	Medium	(Contacting Parts Made of)	Incl. attached Tee Fitting according to DIN 2950	Item No.	Price
SW							
SW-1E	1" - 8"	11 bar	normal	(brass)	—	1702-3011-0000-000	110,66 €
SW-2E	1" - 8"	30 bar	aggressive	(stainless steel V4A)	—	1702-3012-0101-000	350,04 €
SW-3E	½"	11 bar	normal	(brass)		1702-3013-0031-000	203,85 €
SW-4E	¾"	11 bar	normal	(brass)		1702-3014-0041-000	203,85 €
Spare part							
PSW-09	Set of stainless steel paddles 1-8" (4 pieces)					7700-0010-1000-000	18,30 €
Note:	Z = Fourth paddle included in the scope of delivery to be used in addition to the three paddles already factory-mounted (1, 2, 3 plus 4)!						



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LUFT & FLOW - KANALFØLERE



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