

## Flow Switch CRG



- Can be used from nominal width DN 25..200
- Suitable for media with ferritic particles.

### Characteristics

The devices function via the principle of a paddle supported by a metal bellows, and the triggering of a micro switch.

### Technical data

<b>Switch</b>	micro switch	
<b>Nominal width</b>	DN 25..200	
<b>Process connection</b>	male thread R 1"	
<b>Switching range</b>	0.2..165.7 m <sup>3</sup> /h	for details see table "Ranges"
<b>Q<sub>max.</sub></b>	up to 240 m <sup>3</sup> /h	
<b>Tolerance</b>	±15 % of full scale value	
<b>Pressure resistance</b>	PN 11 bar	
<b>Medium temperature</b>	-20..+120 °C	
<b>Ambient temperature</b>	-20..+85 °C	
<b>Media</b>	water (oils and aggressive media available on request)	
<b>Wiring</b>	changeover no. 0.374 	
<b>Switching voltage</b>	250 V DC	
<b>Switching current</b>	15(8) A	
<b>Protection class</b>	1 - PE connection	
<b>Ingress protection</b>	IP 65	
<b>Electrical connection</b>	cable screw gland M20x1.5	
<b>Materials medium-contact</b>	<i>Brass construction:</i> CW614N, 1.4571, Tombak	<i>Stainless steel construction:</i> 1.4571
<b>Non-medium-contact materials</b>	ABS, PC transparent	
<b>Weight</b>	Brass construction: 0.95 kg Stainless steel construction: 1.1 kg	

<b>Installation location</b>	Standard: horizontal inwards flow; switching unit not recommended underneath; other installation positions are possible; the installation position affects the switching point and range.
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### Ranges

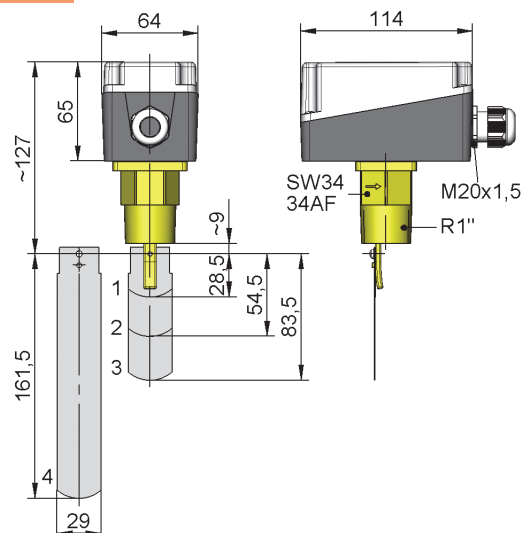
Details in the table correspond to horizontal inwards flow with decreasing flow rate.

● = Standard ○ = Option for reduced switching range

DN	Switching range m <sup>3</sup> /h H <sub>2</sub> O				Q <sub>max.</sub> recommended
	Paddle 1	Paddle 1,2*	Paddle 1,2,3*	Paddle 1,2,3,4*	
25	○ 0.20 - 1.0 ● 0.60 - 2.0				3.6
32	○ 0.25 - 1.4 ● 0.80 - 2.8				6.0
40	○ 0.50 - 1.6 ● 1.10 - 3.7				9.0
50	○	0.9 - 3.6 2.2 - 5.7			15.0
65	○	1.2 - 4.9 2.7 - 6.5			24.0
80	○		2.1 - 7.4 4.3 - 10.7		36.0
100	○		4.9 - 17.1 11.4 - 27.7	3.3 - 11.6 6.1 - 17.3	60.0
125	○		9.7 - 34.0 22.9 - 53.3	5.0 - 17.5 9.3 - 25.2	90.0
150	○		13.6 - 47.6 35.9 - 81.7	6.1 - 21.4 12.3 - 30.6	120.0
200	○		25.7 - 90.1 72.6 - 165.7	21.7 - 55.3 38.6 - 90.8	240.0

\*must be used together

### Dimensions



Adapt paddle 1 for DN 25.  
 From DN 100, adapt paddle 4:  
 DN 100 Paddle length 92  
 DN 125 Paddle length 117  
 DN 150 Paddle length 143

From DN 175 unshortened

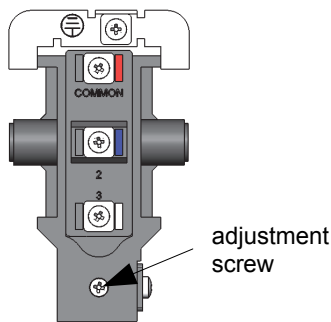
## Handling and operation

### Note

- Attention! Paddle fixing unsecured. For critical conditions (e.g. vibration), fit a bolted fixing.
- Include straight calming section of 10 x DN in inlet and outlet
- If the media are dirty, install a filter.
- It must be ensured that the values given for voltage, current, and power are not exceeded.
- When switched on, a load must be connected in series.
- The electrical details apply to ohmic loads. Capacitive and inductive loads must be operated using a protective circuit.

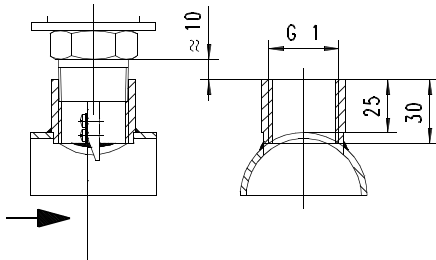
### Loosen adjustment

Screws, and remove hood; set the desired switching value using the adjustment screw, and refasten the hood.



### Installation recommendation

Use a tube with standard wall thickness as per DIN 2448



## Ordering code

CRG -

○=Option

<b>1. Process connection</b>	
025H	threaded connection DN 25 - R 1 "
<b>2. Connection material</b>	
M	brass
K	stainless steel
<b>3. Cable screw gland</b>	
S	to the side
<b>4. Switching range</b>	
R	<input type="radio"/> reduced

### Options

- Switching ranges for oil
- Special values

### Ordering information

- Specify direction of flow, medium, and switching range.
- For oils, state viscosity, temperature and designation (e.g. ISO VG 68) (enquire about range).