

**Product Information**

**CRG-025HM/K**

**Flow Switch CRG**

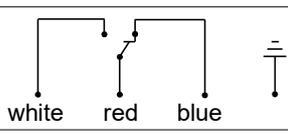


- Can be used from nominal width DN 25..200
- Suitable for media with ferritic particles.

**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 m³/h	for details see table "Ranges"
<b>Q<sub>max.</sub></b>	up to 240 m³/h	
<b>Tolerance</b>	±15 % of full scale value	
<b>Pressure resistance</b>	PN 11	
<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 AC	
<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>	Brass construction: CW614N, 1.4571, Tombak	Stainless steel construction: 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**

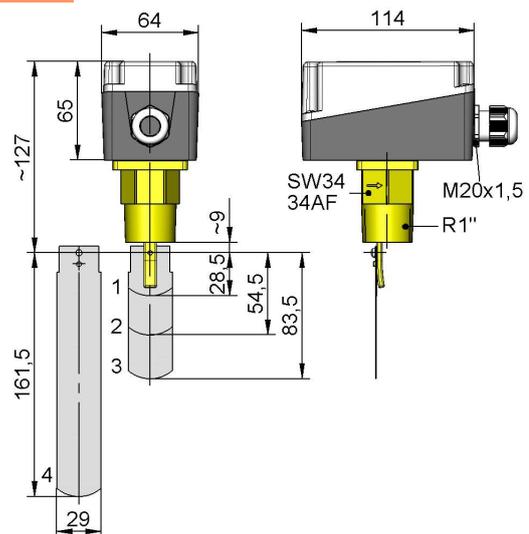
Details in the table correspond to horizontal inwards flow with decreasing flow rate.

● = Standard ○ = Option for reduced switching range

DN	Switching range m³/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				3.6									
	● 0.60 - 2.0													
32	○ 0.25 - 1.4							6.0						
	● 0.80 - 2.8													
40	○ 0.50 - 1.6										9.0			
	● 1.10 - 3.7													
50	○										0.9 - 3.6			15.0
	●										2.2 - 5.7			
65	○				1.2 - 4.9			24.0						
	●				2.7 - 6.5									
80	○		2.1 - 7.4		36.0									
	●		4.3 - 10.7											
100	○		4.9 - 17.1		3.3 - 11.6	60.0								
	●		11.4 - 27.7		6.1 - 17.3									
125	○		9.7 - 34.0		5.0 - 17.5	90.0								
	●		22.9 - 53.3		9.3 - 25.2									
150	○		13.6 - 47.6		6.1 - 21.4	120.0								
	●		35.9 - 81.7		12.3 - 30.6									
200	○		25.7 - 90.1		21.7 - 55.3	240.0								
	●		72.6 - 165.7		38.6 - 90.8									

\*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

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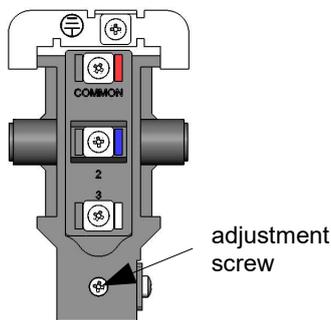
**Handling and operation**

**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.

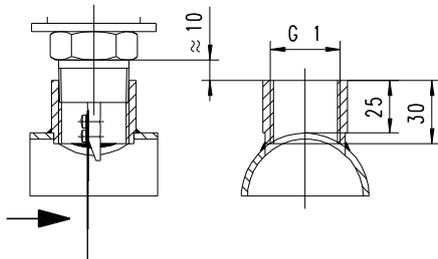
**Loosen adjustment**

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 - 

1.	2.	3.	4.
025H		S	

○=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).