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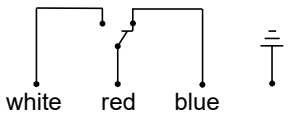
Flow Switch CRE

- **Can be used in 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

Switch	micro switch	
Nominal width	DN 25...200	
Process connection	male thread R 1 "	
Switching range	0.19...165.7 m³/h	for details see table "Ranges"
$Q_{max.}$	up to 240 m³/h	
Tolerance	±15 % of full scale value	
Compressive strength	brass construction stainless steel construction	PN 8, reduced switching range PN 5 PN 13, reduced switching range PN 5
Media temperature	max. +120 °C	
Ambient temperature	-40...+85 °C	
Media	water (oils and aggressive media on request)	
Wiring	changeover no. 0.374	
Switching voltage	250 V AC	
Switching current	15 A	
Protection class	1 - PE connection	
Ingress protection	IP 65	
Electr. connection	cable screw gland M16x1.5	
Wetted materials	*Brass version:* CW614N, 1.4571, Tombak	*Stainless steel version:* 1.4571
Non-wetted materials	ABS	
Weight	Brass version: 0.95 kg Stainless steel: 1.1 kg	
Installation location	Standard: horizontal flow; switching unit not recommended underneath; other installation positions are possible. The installation position affects the switching value and range.	

Ranges

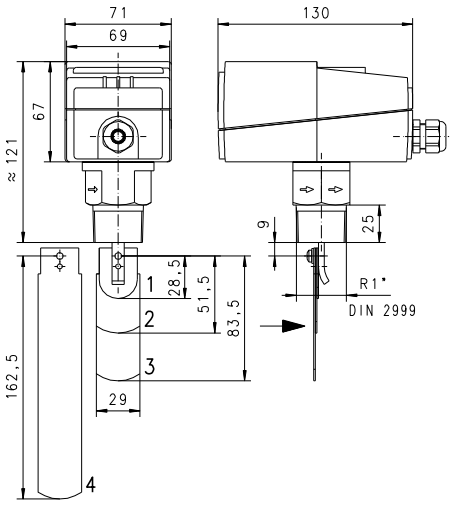
Details in the table correspond to horizontal flow with decreasing flow rate.

● = Standard ❍ = Option for reduced switching range

DN		Switching range m³/h H_2O				$Q_{max.}$ recommended
		Paddle 1	Paddle 1,2*	Paddle 1,2,3*	Paddle 1,2,3,4*	
25	❍	0.19 - 1.0				3.6
	●	0.55 - 2.0				
32	❍	0.24 - 1.4				6.0
	●	0.82 - 2.8				
40	❍	0.50 - 1.9				9.0
	●	1.10 - 4.0				
50	❍		0.9 - 3.6			15.0
	●		2.1 - 7.3			
65	❍		1.2 - 4.9			24.0
	●		2.8 - 9.8			
80	❍			2.1 - 7.4		36.0
	●			4.0 - 13.8		
100	❍			4.9 - 17.1	3.3 - 11.6	60.0
	●			10.4 - 32.0	7.0 - 21.7	
125	❍			9.7 - 34.0	5.0 - 17.5	90.0
	●			20.8 - 63.5	10.7 - 33.3	
150	❍			13.6 - 47.6	6.1 - 21.4	120.0
	●			29.2 - 89.1	13.1 - 39.9	
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 uncut

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Product Information

CRE-025HM / K

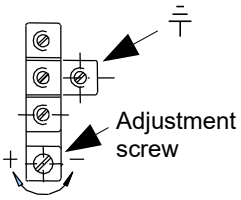
Handling and operation

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.

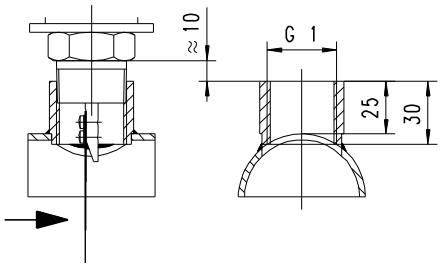
Loosen adjustment

Screw, 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

	1.	2.	3.	4.
CRE -	025H		S	

❍=Option

1.	**Process connection**	
	025H	threaded connection DN 25 - R 1 "
2.	**Connection material**	
	M	brass
	K	stainless steel
3.	**Cable screw gland**	
	S	to the side
4.	**Switching range**	
	R ❍	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).