GHM Messtechnik GmbH - Location Honsberg

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Product Information

GHM-HONSBERG

MR-008..025GM/K

Flow Switch MR



- High switching power
- Compact design

Characteristics

Mechanical flow switch, for fluid or gaseous media, with spring-supported piston and magnetic triggering of a reed switch. Robust construction in brass or stainless steel.

Technical data

Switch	reed switch	
Nominal width	DN 8.0.25	
Process	female thread G ¹ / ₄ G 1	
connection	(further process conn	ections available on
	request)	
Switching range	0.460 l/min	
Pressure loss	0.41.9 bar at Q _{max.} for details see table "Ranges"	
Q _{max} .	to 80 I/min	
Tolerance	±5 % of full scale valu	е
Pressure	PN 200 bar	
resistance	(with optional display	O1 G ¹ / ₄ G ³ / ₄ PN 90)
Media temperature	-20+120 °C	
Ambient	-20+70 °C	
temperature		
Media	water (oils, gases and aggressive media available on request)	
Wiring	transformer	
	no. 0.213	
	brown blue black	
Switching voltage	max. 250 V AC	
Switching current	max. 1.5 A	
Switching	max. 50 VA	
capacity		
Protection class	2 - safety insulation	
Ingress protection	IP 65	
Electrical	cable 2.5 m	
connection	(others cable lengths available on request)	
Materials	Brass construction:	Stainless steel
medium-contact	CW614N nickelled, 1.4301. 1.4310. hard	construction: 1.4305, 1.4571, 1.4301,
	ferrite, NBR	1.4371, 1.4301, 1.4310, hard ferrite
	Tomic, NDIX	PTFE-coated, FKM
Non-medium-	PA. PVC	
contact materials	,	
Weight	see table "Dimensions and weights"	
Installation	Standard: horizontal inwards flow from the	
location	left; other installation positions are possible;	
	the installation position affects the switching	
	point and range.	

Ranges

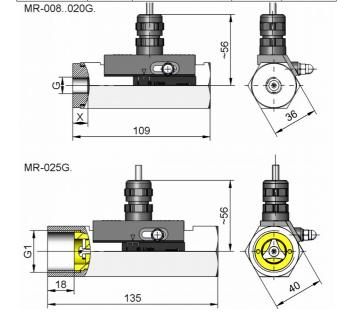
For switching ranges, the details in the table correspond to horizontal inwards flow and decreasing flow rate; for display ranges they correspond to horizontal inwards flow and increasing flow rate.

Switching range I/min H ₂ O	Optionally Display range I/min H₂O	Q _{max.} recommended	Pressure loss bar at Q _{max.} H ₂ O
0.4 - 4	0.5 - 5	10	0.4
1.0 - 10	1.0 - 12	20	0.9
5.0 - 20	5.0 - 25	30	0.7
10.0 - 40	5.0 - 40	60	1.9
20.0 - 60	20.0 - 60	80	1.6

Special ranges are available.

Dimensions and weights

	G	Types	Х	Weight kg
Brass	G 1/4	MR-008GM	12	0.9
	G 3/8	MR-010GM		
	G 1/2	MR-015GM		
	G 3/4	MR-020GM	18	
	G 1	MR-025GM		1.2
Stainless steel	G ¹ / ₄	MR-008GK	12	0.9
	G 3/8	MR-010GK		
	G ¹ / ₂	MR-015GK		
	G 3/4	MR-020GK	18	0.8
	G 1	MR-025GK		1.1



additional weights for options

Display O1 / Z1 0.04 kg

... professional Instruments "MADE IN GERMANY"

pi-ho_fki-mr_e V1.02-03

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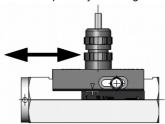
Handling and Operation

Note

- Install straight calming section of 5 x DN in inlet and outlet.
- Include a filter if the media are dirty (use magnetic filter for ferritic components).
- It must be ensured that the values given for voltage, current, and power are not exceeded.
- When switch on, a load must be connected in series.
- The electrical details apply to ohmic loads. Capacitive, inductive and lamp loads must be operated using a protective circuit.

Adjustment

If it is necessary to set the switching value, the switching head can be adjusted lengthways. When the switching value is reached, the switching unit is fixed in place by fastening bolts.



Ordering code

	1.	2.	3.	4.	5.
MR			G		

1.	Display options		
	-	no mechanical display	
	O1-	with measurement display at side O1	
2.	Nominal width		
	800	DN 8 - G ¹ / ₄	
	010	DN 10 - G ³ / ₈	
	015	DN 15 - G ¹ / ₂	
	020	DN 20 - G ³ / ₄	
	025	DN 25 - G 1	
3.	Process connection		
	G	female thread	
4.	Connection material		
	М	brass	
	K	stainless steel	
5.	Switching range H₂O		
٥.	for horizontal inwards flow		
	004	0.4 - 4 l/min	
	010	1.0 - 10 l/min	
	020	5.0 - 20 l/min	
	040	10.0 - 40 l/min	
	060	20.0 - 60 l/min	

Options

- Switching values for oil or gas
- Special values
- Connection for round plug connector M12x1
- Additional switching head
- Damping for gas monitoring
- Rhodium contact 250 V AC, 0.5 A, 30 VA

Ordering information

- Specify direction of flow, medium, and switching range.
- For viscous media specify viscosity, temperature, and medium (e.g. ISO VG 68) (enquire about switching range).
- For gases, state pressure (relative or absolute), temperature and medium (e.g. air) (request switching range).