

# **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 <sup>1</sup> / <sub>4</sub> G			
connection				
	(further process connections available on request)			
Switching range	0.460 l/min	for details see		
Pressure loss	0.41.9 bar at Q <sub>max.</sub>	table "Ranges"		
Q <sub>max.</sub>	to 80 I/min			
Tolerance	±5 % of full scale value			
Pressure	PN 200 bar			
resistance	(with optional display O1 G <sup>1</sup> / <sub>4</sub> G <sup>3</sup> / <sub>4</sub> 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	· r		
	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	1.4310, hard ferrite		
		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 point and range.	in affects the switching		

# Ranges

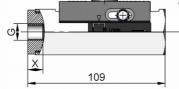
For switching ranges, the details in the table correspond to horizontal inwards flow and decreasing flow rate; for display ranges they correspond to horizontal inwards flow and increasing flow rate.

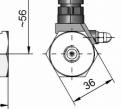
Switching range I/min H <sub>2</sub> O	Optionally Display range I/min H <sub>2</sub> O	<b>Q</b> <sub>max.</sub> recommended	<b>Pressure loss</b> bar at Q <sub>max.</sub> H <sub>2</sub> O
0.4 - 4	0.5 - 5	10	0.4
1.0 - 10	1.0 - 12	20	0.9
5.0 - 20	5.0 - 25	30	0.7
10.0 - 40	5.0 - 40	60	1.9
20.0 - 60	20.0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

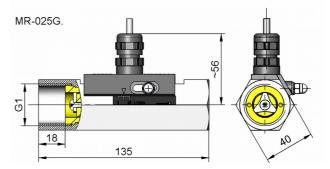
Special ranges are available.

#### **Dimensions and weights**

	G	Types	X	Weight kg
Brass	G <sup>1</sup> / <sub>4</sub>	MR-008GM	12	0.9
	G <sup>3</sup> / <sub>8</sub>	MR-010GM		
	G <sup>1</sup> / <sub>2</sub>	MR-015GM		
	G <sup>3</sup> / <sub>4</sub>	MR-020GM	18	
	G 1	MR-025GM		1.2
Stainless	G <sup>1</sup> / <sub>4</sub>	MR-008GK		0.9
steel			12	
	G <sup>3</sup> / <sub>8</sub>	MR-010GK		
	G <sup>1</sup> / <sub>2</sub>	MR-015GK		
	G <sup>3</sup> / <sub>4</sub>	MR-020GK	18	0.8
	G 1	MR-025GK		1.1
MR-00802	0G.			
W	·			







## additional weights for options

Display O1 / Z1

0.04 kg



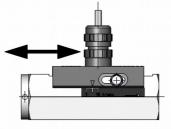
# Handling and Operation

## Note

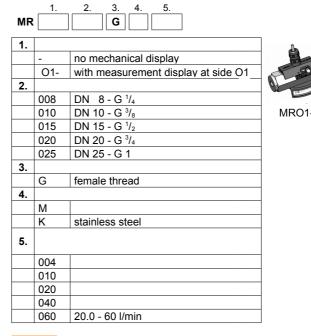
- Install straight calming section of 5 x DN in inlet and outlet. •
- Include a filter if the media are dirty (use magnetic filter for . ferritic components).
- It must be ensured that the values given for voltage, current, and power are not exceeded.
- When switch on, a load must be connected in series.
- 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



#### 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).

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