Flow Switch FW1-...GM



- Economical design
- High switching power
- Insensitive to dirt

Characteristics

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

Technical data

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Switch	reed switch					
Nominal width	DN 825					
Process	female thread G ¹ / ₄ G 1					
connection	(further process connections available on					
	request)					
Switching range	111 l/min					
Pressure loss	0.20.8 bar at Q _{max} for details see					
Q _{max} .	to 30 I/min table "Ranges"					
Tolerance	±10 % of full scale value					
Pressure	PN 100 bar optionally					
resistance	The foo bar optionally up to the ood bar					
Media	-20+90 °C					
temperature						
Ambient	-20+70 °C					
temperature						
Media	water (oils and aggressive media available					
	on request)					
Wiring	normally open (n.o.)					
	No. 0.378	used				
	ļ	İ				
	1	2 3 4				
Switching voltage	max. 230 V AC					
Switching current	max. 0.5 A					
Switching	max. 50 VA					
capacity						
Protection class	2 - safety insulation					
Ingress protection	IP 67					
Electrical	for round plug connector M12x1, 4-pole					
connection						
Materials	CW614N nickelled, CW614N, POM, 1.4310,					
medium-contact	hard ferrite					
Non-medium-	PC, 1.4301, 1.4305					
contact materials						
Weight	see table "Dimensions and weights"					
Installation	Standard: horizontal inwards flow; other					
location	installation positions installation position					
	point and range.	uncold the switching				

Ranges

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

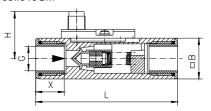
G	DN	Switching range I/min H ₂ O	Q _{max.} recommended	Pressure loss bar at Q _{max.} H ₂ O
G 1/4	DN 8	1 - 6	8	0.2
G 3/8	DN 10		10	0.3
G 1/2	DN 15		20	8.0
G 3/4	DN 20	1 - 11	30	0.2
G 1	DN 25			

Special ranges are available.

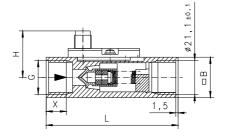
Dimensions and weights

G	Types	L	Н	В	Х	Weight kg
G ¹ / ₄	FW1-008GM	89	30	25	18	0.35
G 3/8	FW1-010GM					
G ¹ / ₂	FW1-015GM	85			12	0.30
G 3/4	FW1-020GM	100	36	36	18	0.75
G 1	FW1-025GM		38	40		0.85

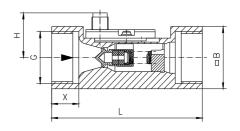
FW1-008..010GM



FW1-015GM



FW1-020..025GM



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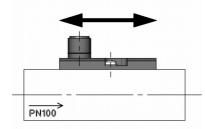
Handling and Operation

Note

- Include 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

Loosen screw slightly, push the switching head into the desired position, and then retighten the screw.



Ordering code

1.	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					
2.	Process connection						
	G	female thread					
3.	Connection material						
	M	brass					
4.	Switching range H₂O for horizontal inwards flow						
	006	1 - 6 l/min			•	•	•
	011	1 - 11 l/min	•	•			

Options

- Switching value for oil
- Special values
- Cable outlet 3 m
- Pressure stages PS 500 and PS 800 for DN 15

Ordering information

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