

# 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

Switch	reed switch			
Nominal width	DN 825			
Process	female thread G <sup>1</sup> / <sub>4</sub> G 1			
connection	(further process connections available on			
	request)			
Switching range	111 l/min	for details see		
Pressure loss	0.20.8 bar at Q <sub>max.</sub>	table "Ranges"		
Q <sub>max.</sub>	to 30 l/min	Ŭ		
Tolerance	±10 % of full scale val	ue		
Pressure resistance	PN 100 bar optionally	up to PN 800 bar		
Media	-20+90 °C			
temperature	-20			
Ambient	-20+70 °C			
temperature				
Media	water (oils and aggressive media available on request)			
Wiring	pormally open (no)			
	No. 0.378 • used			
		useu		
	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	ana tabla "Dimoraiara	and waights"		
Weight	see table "Dimensions and weights"			
Installation location	Standard: horizontal installation positions	,		
		affects the switching		
	point and range.	and and and annuming		
L				

# Ranges

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

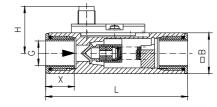
G	DN	Switching range I/min H₂O	<b>Q</b> <sub>max.</sub> recommended	Pressure loss bar at $Q_{max}$ . $H_2O$
G <sup>1</sup> / <sub>4</sub>	DN 8	1-6	8	0.2
G <sup>3</sup> / <sub>8</sub>	DN 10		10	0.3
G 1/2	DN 15		20	0.8
G <sup>3</sup> / <sub>4</sub>	DN 20	1 - 11	30	0.2
G 1	DN 25			

Special ranges are available.

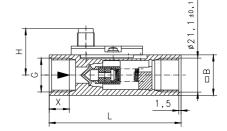
# **Dimensions and weights**

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

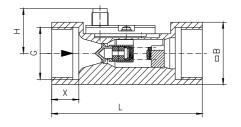
FW1-008..010GM



FW1-015GM



#### FW1-020..025GM





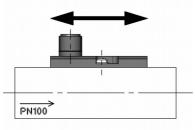
#### Handling and Operation

#### 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.	2.	3.	4.
FW1 -		G	Μ	

1.	Nominal width						
	008	DN 8-G <sup>1</sup> / <sub>4</sub>					
	010	DN 10 - G <sup>3</sup> / <sub>8</sub>					
	015	DN 15 - G <sup>1</sup> / <sub>2</sub>					
	020	DN 20 - G <sup>3</sup> / <sub>4</sub>					
	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			٠	•	•
	011	1 - 11 l/min	٠	٠			

#### 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).

#### SMS Sanayi Malzemeleri Üretim ve Satış A.Ş.

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