Flow Monitor – Flow Indicator DWM/A

Flow monitor / flow indicator operating on the principle of the float type indicator for liquids

- High reliability
- High switch accuracy
- Wide switch range
- Infinitely variable switch point adjustment by operator
- EX-version according to ATEX directive available

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Flow monitor / flow indicator operating on the principle of the float type indicator for liquids

Features
- High reliability
- High switch accuracy
- Wide switch range
- Infinitely variable switch point adjustment by operator
- EX-version according to ATEX directive available
- UL Recognized version available
- High pressure resistance
- Threaded connection, special thread on request

Application
- Cooling systems and cooling circuits
- Mechanical engineering
- Medical engineering
- Pharmaceutical industry
- Chemical industry
- Research & Development

Operating Data	
Operating pressure, max.	200 bar (brass version)
	300 bar (stainless steel version)
Pressure drop	0.02 – 0.2 bar
Temperature, max.	100°C (optional 160°C)
Measuring acuracy	±5% of full scale

Changed operating data apply to the device in explosion-proof design according to ATEX directive. Refer to the Operating Instructions for DWM/A Module ATEX.

For UL Recognized devices, changed operating data apply. Refer to the Operating Instructions for DWM/A Module BASICS.

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Measuring Ranges			
Type	**Switch range for H_2O at 20°C (1)**		
	l/min	**gph**	**gpm**
DWM/A-1,5	0.1 – 1.5	1.5 – 23.8	
DWM/A-3	0.2 – 3	3 – 47.5	
DWM/A-8	0.3 – 8	5 – 127	
DWM/A-12	1 – 12	16 – 190	
DWM/A-18	2 – 18	32 – 285	
DWM/A-35	3 – 35	50 – 555	
DWM/A-50	4 - 50	65 - 790	

(1) The specified measuring- / switch ranges are valid for water having a density of 1.00 kg/dm³, vertical installation of the device and flow direction from bottom to top.
Other installation positions or deviation from the operating densities will increase the measurement error specified in the data sheet.
Operating density for water at 20 °C and 1.013 bar (absolute value): 1.00 kg/dm³.
Upon request, special scales for deviating media, different operating conditions and installation positions (only for devices which can be installed in any position) are available.
The specified switch values are switch-off points, i.e. switch values by decreasing flow.
Other measuring- /switch ranges are available upon request.

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Materials		
Wetted parts	**Brass version**	**Stainless steel version**
Float	Brass, nickel-plated	1.4571
Gaskets	NBR (optional FKM, EPDM)(2)	FKM (optional NBR, EPDM)(2)
Threaded rings: Only DWM/A-35 (1“), DWM/A-50 (1“)	brass	1.4571
Centering disc: Only DWM/A-35, DWM/A-50	Brass, nickel-plated	1.4571
Process connections: Not for DWM/A-35 (1“), DWM/A-50 (1“)	Brass, nickel-plated	1.4571
All other wetted parts	Brass, nickel-plated	1.4571
Non-wetted parts: Indicator	Makrolon® Brass, nickel-plated	Makrolon® Brass, nickel-plated

(2) Other gasket materials on request

Summary of Types

Type	Overall dimensions [mm]											Weight approx. [g]
	G	DN	SW	L1	L2	T	D1	D2	A1	A2	A3	A4	
DWM/A-1,5	¼“ ⅜“ ½“	8 10 15	27 27 27	117 117 117	131 131 131	10 15 14	30 30 30	30 30 30	47 47 47	33.5 33.5 33.5	65.5 65.5 65.5	~88 ~88 ~88	850
DWM/A-3													850
DWM/A-8													850
DWM/A-12													850
DWM/A-18	½“ ¾“	15 20	27 32	132 132	146 174	14 15	30 35	30 30	47 47	33.5 33.5	65.5 65.5	~88 ~88	850 1010
DWM/A-35	¾“ 1“	20 25	34 40	130 156	152 156	15 17	40 40	40 40	57 57	- -	70.5 70.5	~98 ~98	1500 1500
DWM/A-50	¾“ 1“	20 25	34 40	130 156	152 156	15 17	40 40	40 40	57 57	- -	70.5 70.5	~98 ~98	1500 1500

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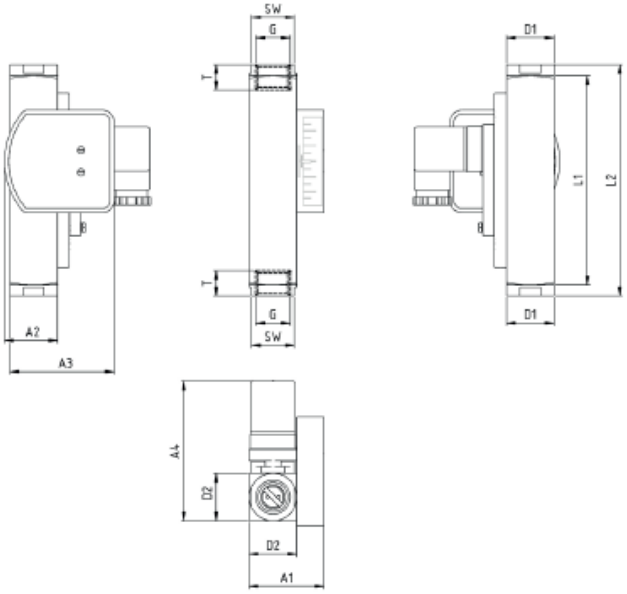
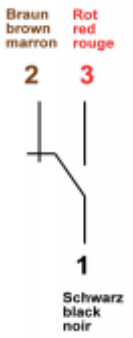
Technical drawing



Connector in compliance with EN 175301-803 Form A and cable

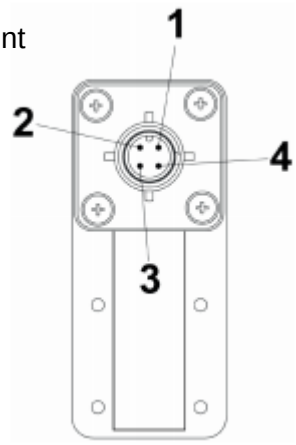
Change over (COC)



Normally open (NOC)

M12x1

Pin assignment



Change over (COC)

Normally open (NOC)

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Electrical Data	
Change over (COC)	250 V • 1,5A • 50 VA (3)
Normally open (NOC)	250 V • 3A • 100 VA
Change over M 12x1 (-20 °C – 85 °C)	250 V • 1,5A • 50 VA (3)
Normally open M 12x1 (-20 °C – 85 °C)	250 V • 3A • 100 VA
EX-version in compliance with ATEX directive	
ATEX II 2G Ex mb IIC T6 Gb & ATEX II 2 D Ex tb IIIC T80 °C Db	
ATEX II 2G Ex mb IIC T5 Gb & ATEX II 2 D Ex tb IIIC T100 °C Db	
Change over	250 V • 1A • 30 VA
Normally open	250 V • 2A • 60 VA
UL recognized switch contacts	
Change over	240 V • 1,5A • 50 VA (3)
Normally open	250 V • 3A • 100 VA
(3) Minimum load 3 VA	

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Electrical connection
• Connector in compliance with EN 175301-803, Form A (DIN 43650, Form A) • Connector M12x1 • Cable (1 m)
EX-version in compliance with ATEX directive • Cable (2 m)
UL recognized switch contacts • Connector in compliance with EN 175301-803, Form A • Cable (1 m)
Ingress protection: IP65: Connector in compliance with EN 175301-803, Form A IP67: able or connector M12x1
Output signal The contact opens / changes when the flow decreases below the set point.
Power supply Not required (potential-free reed contacts)
Plug types Other connector types or cable lengths on request

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Important instructions!
Technical changes and errors reserved.
Pictures can be similar.
The operating instructions belonging to this device must be observed! Download at www.schmidt-messtechnik.com.

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