

# Flow Monitor Flow Indicator

## DWM/A-L



### Operation

The flow monitors and indicators type DWM/A-L operate with the float measuring principle

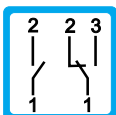
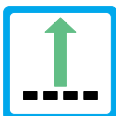
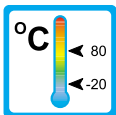


### Application

The flow monitors and indicators type DWM/A-L are used for measuring and monitoring volumeflow of gaseous media.

Areas of application:

- Coolingsystems and cooling-circuits
- Mechanical Engineering e.g. Weldingmachinery, Laserplants
- Medicine technology
- Pharma industry
- Chemical industry
- Research and development



### Features

The DWM/A-L series proves itself through reliable function and easy handling. Further characteristics of this sturdy type are:

- high reliability
- high switch accuracy
- wide switch range
- infinitely variable switchpoint adjustment through user
- EX-version to ATEX available
- high pressure resistance
- Threaded connection  
Special threads on request

### Installation hints

The instrument must be installed vertically in the flow circuit. The flowdirection is from bottom to top.

The flow monitor must not be used as a supporting part in a pipeconstruction!

The medium must not contain any solid particles!  
We recommend the installation of strainers type SFD or SFM.

External magnetic fields influence the switch contact. Keep adequate distance to those magnetic fields (e.g. electromotors)!

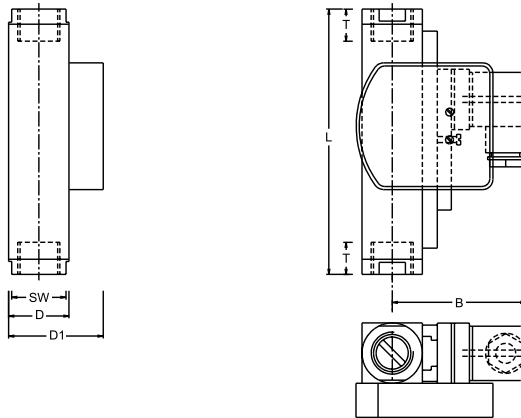
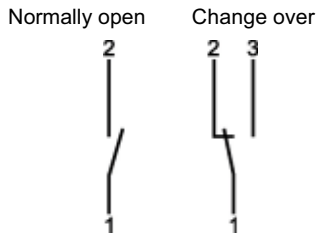
The operating instruction for DWM/A-L must be observed under any circumstances!

DWM/A-L 1 0002 02-05 E M



# Measuring Ranges, Technical Data

## Connection diagram



## Summary of types DWM/A - L

Type	Switch range* Air [NI/min]	Overall dimensions mm								Weight approx. [g]
		SW	D	D1	B	G	DN	T	L	
DWM/A - L1,5	1 - 28	27	30	47	71	1/4"	8	14	130	850
DWM/A - L3	4 - 60					3/8"	10	19		
DWM/A - L8	6 - 160					1/2"	15	19		
DWM/A - L12	20 - 240					1/2"	15	19		
DWM/A - L18	40 - 360	27	30	47	71	3/4"	20	17	148	900 1010
DWM/A - L50	60 - 700	34	40	57	76	3/4"	20	18	152	1400
		40				1"	25	19	156	1100
DWM/A - L100	200 - 1450	50	50	67	81	1"	25	20	200	2800

\* Switch-off points at 1 bar abs. and 20 °C, other media and/or operating conditions on request

Operating data		DWM/A-L	
Operating pressure:		PN 200 bar (Brass)	PN 300 bar (Stainless Steel)
Pressure drop:		0,02 - 0,4 bar	
Maximum temperature:		80 °C	
Accuracy:		± 10% of full scale	
<b>Electrical data:</b>		<b>Normally open</b>	<b>Change over</b>
IP 65 (plug connection DIN 43650)		max. 250V • 3A • 100VA	max. 250V • 1,5A • 50VA
IP 67 (1 m sealed in cable)			
Ex-proof, Atex 2154X to 94/9/EG:		max. 250V • 2A • 60VA	max. 250V • 1A • 30VA
Ex II 2 G EEx m II T6 + Ex II 2 D IP67 T80 °C (2 m sealed in cable)			
Output signal:		The contact opens / changes, when the flow falls below the set point.	
Power supply:		Not required (potentialfree reed contact)	
Other plug types or cable lengths on request			
<b>Material:</b>		<b>Brass</b>	<b>Stainless Steel</b>
Wetted parts:		Brass nickel-plated	1.4571
Float:	(wetted part)	Delrin	
Gaskets:	(wetted part)	Perbunan (optional Viton, EPDM)*	Viton (optional Perbunan, EPDM)*

\* Other gasket materials on request

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