

# Flow Monitor

## DWM-L



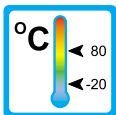
### Operation

The flow monitors type DWM-L operate with the float measuring principle



### Application

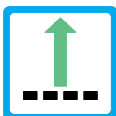
The flow monitors type DWM-L are used for monitoring volumeflow of gaseous media.



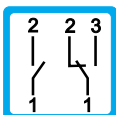
Areas of application:



– Coolingsystems and cooling-circuits



– Mechanical Engineering  
e.g. Weldingmachinery,  
Laserplants



– Medicine technology

– Pharma industry

– Chemical industry

– Research and development



### Features

The DWM-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)!

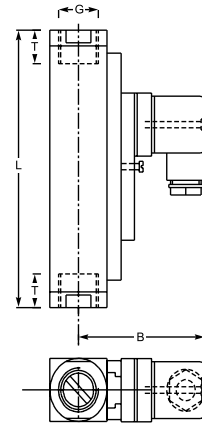
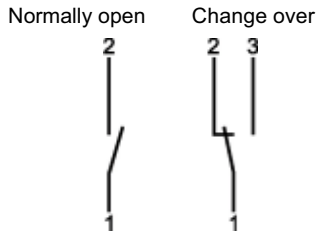
The operating instruction for DWM-L must be observed under any circumstances!

DWM-L 1 0002 02-05 E M



# Measuring Range, Technical Data

## Connection diagram



## Summary of types DWM-L

Typ	Switch range* Air [NI/min]	Overall dimensions mm							Weight approx. [g]
		SW	D	B	G	DN	T	L	
DWM - L1,5	1 - 28	27	30	71	1/4"	8	14	130	800
DWM - L3	4 - 60				3/8"	10	19		
DWM - L8	6 - 160				1/2"	15	19		
DWM - L12	20 - 240				1/2"	15	19		
DWM - L18	40 - 360	27	30	71	1/2"	15	19	148	850
					3/4"	20	17	174	960
DWM - L50	60 - 700	34	40	76	3/4"	20	18	152	1350
		40			1"	25	19	156	1050
DWM - L100	200 - 1450	50	50	81	1"	25	20	200	2750

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

Operating data	DWM-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	
Electrical data:	Normally open	Change over
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		
Material:	Brass	Stainless Steel
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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