



Flow Monitor / Flow Indicator DKG-2, viscosity compensated

Operation: float measuring principle



- Universal orientation
- High reliability
- Viscosity compensated
- Infinitely variable switch point adjustment by operator
- EX-version according to ATEX available
- Scales are burnt onto the sight glass
- Threaded connection, special threads on request

D-EN-DKG-2_20200526



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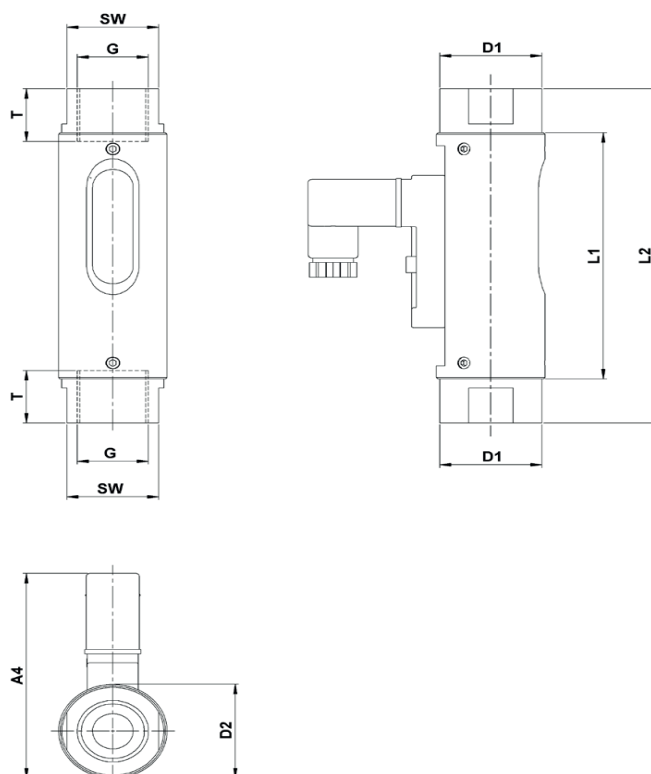
Applications

- Mechanical engineering
- Central lubrication
- Circulation lubrication
- Transformers

Operating data

Operating pressure max.	16 bar
Pressure drop	0,02 – 0,2 bar
Viscosity range	30 cSt to 600 cSt
Temperature max.	120°C (optional 160°C)
Accuracy	±10% of full scale

Mechanical drawing



Measuring ranges

Type	Switch range for oil, density 0.9 kg/dm³ (1)		
	[l/min]	[gph]	[gpm]
DKG-2/2	0,5 – 1,7	8,0 – 27,0	
DKG-2/3	0,8 – 2,5	13,0 – 40,0	
DKG-2/4	1,3 - 4	21,0 – 63,0	
DKG-2/8	2,5 - 8	40,0 – 127,0	

(1) The specified data are switch-off points. Other switch ranges on request



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Electrical data	
Change over	250 V • 1,5 A • 50 VA (2)
Normally open	230 V • 3 A • 100 VA
ATEX II 2G Ex mb II T6 & ATEX II 2 D Ex tD A21 IP67 T80 °C	
ATEX II 2G Ex mb II T6 & ATEX II 2 D Ex tD A21 IP67 T80 °C	
Change over	250 V • 1A • 30 VA
Normally open	250 V • 2A • 100 VA
Change over M 12x1 (-20 °C – 85 °C)	125 V • 1,5A • 50 VA
Normally open M 12x1 (-20 °C – 85 °C)	125 V • 3A • 100 VA
Change over PLC	250 V • 1A • 60 VA
Ingress protection: IP65: Plug connection DIN 43650 Form C or plug connection M 12x1 IP67: 1 m sealed in cable	
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 plug types or cable lengths on request.	
(2) Minimum load 3 VA	



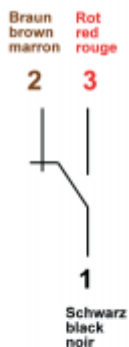
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Connection diagram

Connector in compliance with EN 175301-803
and cable

Change over (COC)



Normally open (NOC)



M12x1

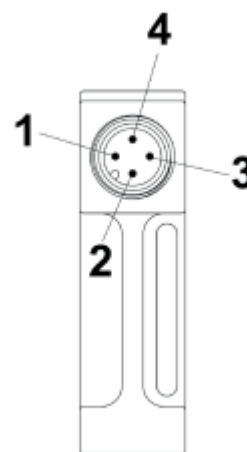
Change over (COC)



Normally open (NOC)



Pin-assignment





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Summary of types												
Type	Overall dimensions [mm]											Weight
	L1	L2	D1	G	T	D2	DN	A1	A2	A3	A4	Approx. [g]
DKG-2/2 DKG-2/3 DKG-2/4 DKG-2/8	84	114	30	1/2 "	14	32	15	-	-	-	~ 70	300

Material		
Wetted parts:	Brass version	Stainless steel version
Sight glass	Duran 50	Duran 50
Spring	1.4571	1.4571
Gaskets	FKM (optional: NBR, EPDM) ⁽²⁾	FKM (optional: NBR, EPDM) ⁽²⁾
Magnets	Hard ferrite	Hard ferrite
All other wetted parts	Brass nickel-plated	1.4571
Non wetted parts:		
Housing	Aluminium anodized	Aluminium anodized

(2) Other gasket materials on request

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.