GHM Messtechnik GmbH - Location Honsberg

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Product Information

Flow Switch HD2K



- High switching power
- Compact design
- viscosity stabilized

Characteristics

Mechanical flow switch, for fluid or gaseous media, with spring-supported piston and magnetic triggering of a reed switch. Robust construction in brass or stainless steel.

Technical data

Switch	reed switch				
Nominal width	DN 825				
Process	female thread G 1/4G				
connection	(further process conne request)	ections available on			
Switching range	0,560 l/min	for details see			
Pressure loss	1,13.5 bar at Q _{max.}	table "Ranges"			
Q _{max.}	to 80 I/min	table Italiges			
Tolerance	±5 % of full scale valu	е			
Pressure resistance	PN 200 bar optionally	PN 500 bar			
Media temperature	-20+120 °C with disp optionally -20+150 °C				
Ambient	-20+70 °C				
temperature	2010				
Media	oil				
Wiring	changeover No. 0.213	1 2 3			
	optionally changeover No. 0.282	3 1 2			
	optionally red or red / DIN 43650-A plug	green diode in the			
Switching voltage	max. 250 V AC				
Switching current	max. 1.5 A				
Switching capacity	max. 50 VA				
Protection class	2 - Safety insulation				
Ingress protection	IP 65				



HD2K-008..025GM/K

Electrical connection	plug DIN 43650-A / ISO 4400 Optionally for round plug connector M12x1, 4-pole		
Materials medium-contact	Brass construction: CW614N nickelled, CW614N, 1.4310, hard ferrite, NBR	Stainless steel construction: 1.4571, 1.4404, 1.4310, hard ferrite PTFE-coated, FKM	
Non-medium- contact materials	PA, CW614N, NBR		
Weight	see table "Dimensions and weights"		
Installation location	Standard: horizontal inwards flow from the left; other installation positions are possible; the installation position affects the switching point and range.		

Ranges

For switching ranges, the details in the table correspond to horizontal inwards flow and decreasing flow rate; for display ranges they correspond to horizontal inwards flow and increasing flow rate.

Viscosity compensated type HD2K

Switching range	Optionally Display range	Q _{max} . recommende d	commende bar at Q _{max}				Viscosity stability	
l/min oil 30330 mm²/s			30	60	100	205	330	±8 %, min.
0.5 - 8	0.5 - 10	12	1.1	1.4	1.6	2.8	3.5	±0.3 l/min
1.5 - 15	1.5 - 20	22	2.2	2.3	2.4			±0.5 l/min
2.5 - 25	2.5 - 30	35	1.9	2.0	2.1	2.3	2.9	±0.8 l/min
6.0 - 40	6.0 - 45	60					2.6	±2.7 l/min
12.0 - 60	12.0 - 65	80	2.1	2.3	2.4	2.6	2.8	±3 l/min

Special ranges are available.

pi-ho_fki-hd2k_e V1.04-00

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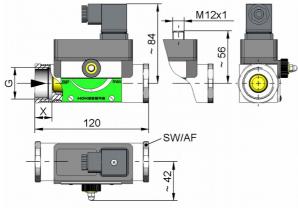
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HD2K-008..025GM / K

Product Information

Dimensions and weights

	G	Types	sw	X	Weight kg
Brass	G 1/4	HD.K-008GM	40	15	1.4
	G 3/8	HD.K-010GM			
	G 1/2	HD.K-015GM			1.3
	G 3/4	HD.K-020GM		18	
	G 1	HD.K-025GM			1.2
Stainless	G ¹ / ₄	HD.K-008GK	41	15	1.3
steel	G 3/8	HD.K-010GK			
	G ¹ / ₂	HD.K-015GK			
	G 3/4	HD.K-020GK		18	1.2
	G 1	HD.K-025GK			1.1



additional weights for options

additional switching head 0.10 kg Display O / Z 0.10 kg Display O1 / Z1 $0.05 \, \text{kg}$

Handling and operation

Note

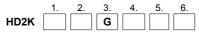
- Include straight calming section of 5 x DN in inlet and outlet
- If the media are dirty, install a filter (use magnetic filter for ferritic components).
- It must be ensured that the values given for voltage, current, and power are not exceeded.
- When switch on, a load must be connected in series.
- The electrical details apply to ohmic loads. Capacitive, inductive and lamp loads must be operated using a protective circuit.

Adjustment

If it is necessary to set the switching value, the switching head can be adjusted by adjustment of a pinion. When the switching value is reached, the switching unit is fixed in place by a fastening bolt (SW 8).



Ordering code



1.	Displa	ay options	
	-	no mechanical display	
	O1-	with measurement display at side O1	
	O-	with measurement display at side O	
	Z1-	with frontal measurement display Z1] `
	Z-	with frontal measurement display Z]
2.	Nomi	nal width	
	800	DN 8 - G ¹ / ₄	
	010	DN 10 - G ³ / ₈	
	015	DN 15 - G ¹ / ₂	
	020	DN 20 - G ³ / ₄	
	025	DN 25 - G 1	
3.	Proce	ss connection	
	G	female thread	1
4.	Conn	ection material	
	M	brass	
	K	stainless steel	هـ ا
5.	HD2K	- switching range oil 30330 mm ² /s	
		orizontal	1
	inwar	ds flow	1
	800	0.5 - 8 l/min	1
	015	1.5 - 15 l/min	
	025	2.5 - 25 l/min	
	040	6.0 - 40 l/min	"
	060	12.0 - 60 l/min	Те
6.	Speci	al switching head	
	А	switching head ATEX A-H1.1 / A-H2.1 Please order the switching head for - use in addition.	











eraturesplay



Options

- Signal lamp red or red / green in the plug DIN 43650-A
- Rhodium contact (250 VAC, 0,5 A, 30 VA)
- Temperature resistant up to 150 °C
- Additional switching head
- Connection for round plug connector M12x1
- High pressure model PN 500 (only if made of brass)
- Adjustment scale with markings in I/min
- Temperature monitoring
- Damping for gas monitoring (only for standard version)
- Special values
- Temperature display 0..120 °C
- Switching head made of metal

Ordering information

- Specify direction of flow, medium, and switching range.
- For viscous media specify viscosity, temperature, and medium (e.g. ISO VG 68) (enquire about switching range).