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Product Information

Flow Switch UB1



- Can be used from nominal width DN 25..200
- Micro switch with gold-plating for small currents, and silver-plating for larger currents
- Visual function control through transparent cover
- Suitable for media with ferritic particles.

Characteristics

The devices function via the principle of a paddle supported by a metal bellows, and the triggering of a microswitch.

Technical data

Switch	Micro switch			
Nominal width	DN 25200			
Process	male thread R 1 " or			
connection	installation flange DIN 2527 DN 32 PN 16			
	sealing surface as per DIN 2526 form C			
Switching range	1.234 m ³ /h for details see			
Q _{max.}	up to 75 m ³ /h table "Ranges"			
Tolerance	±15 % of full scale value			
Pressure	PN 16 bar			
resistance				
Medium	-20+140 °C (no superheated steam)			
temperature				
Ambient	-20+70 °C			
temperature				
Media	water (oils and aggressive media available			
	on request)			
Wiring	changeover			
	no. 0.371			
	1 2 3			
Switching voltage/			A max	A max
Switching current			ohmic	inductive
	max.	250 V AC/DC	6 A	1.5 A
		125 V AC/DC	6 A	2 A
		24 V DC	6 A	5 A
		12 V DC	6 A	6 A
			• • •	1
			A min.	-
	min.	4 V	1 mA	
Protection class	2 - safety insulation			
Ingress protection	IP 65			

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UB1-025HM / K ; UB1-032EM / K

Electrical connection	plug DIN 43650-A / ISO 4400, optionally for round plug connector M12x1, 4-pole (max. 4A)		
Materials medium-contact	Brass construction: CW614N nickelled, 1.4305, 1.4310, 1.4541, FVMQ	Stainless steel construction: 1.4305, 1.4310, 1.4541, FKM	
Non-medium- contact materials	PC, PA		
Weight	Threaded type: Flanged type:	1.3 kg 2.5 kg	
Installation location	Standard: horizontal inwards flow; switching unit not recommended underneath; other installation positions are possible; the installation position affects the switching point and range.		

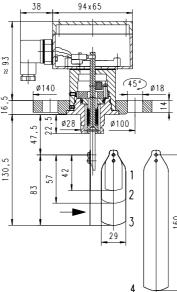
Ranges

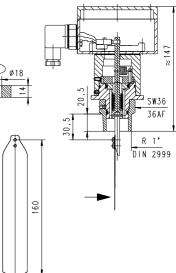
Details in the table correspond to horizontal inwards flow with decreasing flow rate.

DN 25..32 threaded type only. DN 125..200 available on request

DN	Swite	Q _{max.}		
	Paddle	Paddle	Paddle 1,2,3	recom-
	1	1 1,2		mended
25	2.0 - 2.5			4
32	3.0 - 3.5			8
40	4.0 - 5.0			12
50	8.8 - 10.2	3.5 - 4.3]	20
65	16.5 - 20.0	9.2 - 11.0		30
80	25.5 - 31.0	14.0 - 18.0	8.7 - 11.0	45
100	44.0 - 55.0	27.0 - 32.0	17.0 - 22.0	75

Dimensions





Adapt paddle 1 for DN 25. From DN 100, adapt paddle 4: DN 100 Paddle length 92 DN 125 Paddle length 117 DN 150 Paddle length 143 from DN 175 unshortened Attention! Flange seal not included in scope of delivery

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UB1-025HM / K : UB1-032EM / K

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Product Information

Handling and operation

Note

- Attention! Paddle fixing unsecured. For critical conditions (e.g. • vibration), fit a bolted fixing.
- Include straight calming section of 10 x DN in inlet and outlet
- If the media are dirty, install a filter. .
- It must be ensured that the values given for voltage, current, and power are not exceeded.
- When switched on, a load must be connected in series.
- The electrical details apply to ohmic loads.
- Capacitive and inductive loads must be operated using a protective circuit.

Loosen adjustment

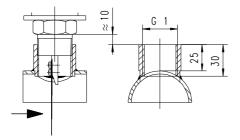
Open cover, loosen the screw slightly on the micro switch fixing. Push the switch into the desired position. Retighten the screw.



Installation recommendation

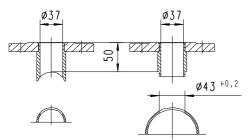
Threaded type

Use a tube with standard wall thickness as per DIN 2448



Flanged type

Use a tube with standard wall thickness as per DIN 2448



The type FL installation flanges are available as an accessory.

Ordering code

		1.	2.
UB1	-		

1.	Process connection			
	025H	threaded connection DN 25 - R 1 "		
	032E	flange DN 32		
2.	Connection material			
	М	brass		
	K	stainless steel		

Options

- Signal lamp red or red/green in the plug DIN 43650-A •
- Double contact
- Aluminium hood with IP 67 •
- Opaque cover
- . Switching ranges for oil
- Special values •
- TÜV-certification 0000021402 .

Ordering information

- Specify direction of flow, medium, and switching range. •
- For oils, state viscosity, temperature and designation . (e.g. ISO VG 68) (enquire about range).