#### Honsberg Instruments GmbH

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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 m³/h for details see			
Q <sub>max</sub> .	up to 75 m³/h table "Ranges"			
Tolerance	±15 % of full scale value			
Pressure resistance	PN 16 bar			
Medium	-20+140 °C (no superheated steam)			
temperature	( 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Ambient	-20+70 °C			
temperature				
Media	water (oils and aggressive media available on request)			
Wiring	changeover			
9	no. 0.371		٠,٠	
			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
			A min.	]
	min.	4 V	1 mA	-
Don't ation of			1 mA	
Protection class	2 - safety insulation			
Ingress protection	IP 65			



# 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,	Stainless steel construction: 1.4305, 1.4310,	
	1.4541, NBR for flange type Rg 5	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.		

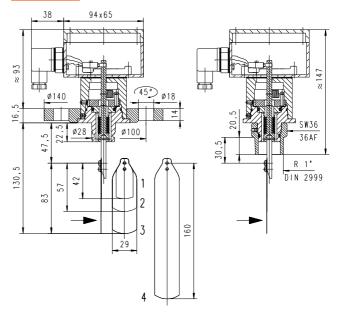
#### Ranges

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	Swit	Q <sub>max.</sub>		
	Paddle	Paddle	Paddle 1,2,3	recommen
	1	1,2		ded
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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# **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

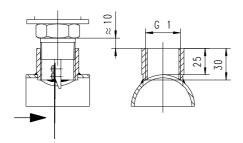
Open cover, loosen the screw slightly on the micro switch fixing. Push the switch into the desired position. Retighten the screw.



# Installation recommendation

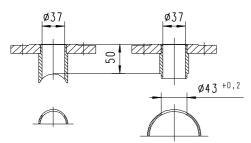
#### Threaded type

Use a tube with standard wall thickness as per DIN 2448



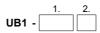
#### Flanged type

Use a tube with standard wall thickness as per DIN 2448



The type FL installation flanges are available as an accessory.

# Ordering code



1.	Process connection		
	025H	threaded connection DN 25 - R 1 "	
	032E	flange DN 32	
2.	Connection material		
	M	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).

