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Product Information

Flow monitor UBX



- Suitable for nominal pipe sizes DN 65, DN 80 and DN 100 (further pipe sizes on request)
- Micro switch with gold contacts
- Process connection male thread R1"
- For temperature range from -40 °C up to +140 °C

Characteristics

The devices work via the principle of a bellow-supported paddle which triggers directly a microswitch in case of flow or no flow.

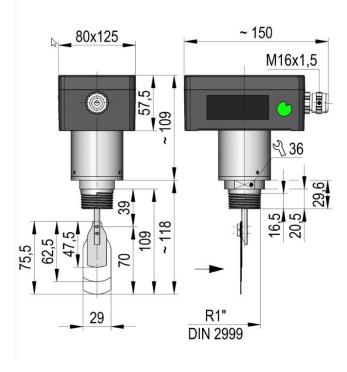
Technical data

Switch	Micro switch		
Nominal diameter	DN 65, DN 80, DN 100		
Process	Male thread R1"		
connection			
Adjustment switch	DN 65: 6.0 $\text{m}^3/\text{h} \pm 2.0 \text{m}^3/\text{h}$ with H_2O		
values	DN 80: 10.5 m³/h ± 2.5 m³/h with H ₂ O		
(for decreasing flow)	DN 100: 20.5 m³/h ± 3.0 m³/h with H ₂ O		
	Further switching values on request		
Q _{max.}	DN 65: 33 m³/h H ₂ O		
	DN 80: 45 m³/h H ₂ O		
	DN 100: 75 m³/h H ₂ O		
D	(all values for v = about 2 m/s)		
Pressure resistance	PN 16		
Medium	-40+140 °C (no superheated steam)		
temperature	-40+140 C (no superneated steam)		
Ambient	-40 +90 °C		
temperature	-40+90 C		
Media	Water, mineral oil, silicone oil, ester oil		
Wiring diagram	Single changeover contact (wiring 0.371-2)		
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	ا ب فر• ا ا		
	1 2 3		
	Double changeover contact		
	(wiring 0.409-1)		
	1 2 3 4 5 6		

UBX-025HM / HK

Switching voltage / Switching current	A max. A max. 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		
Protection class	2 – Safety insulation				
Ingress protection	IP 65 / IP 67				
	(When using an approved connection				
	cable)				
Electrical	Cable gland M16x1,5				
connection	(for cable diam. 7 11 mm)				
Materials with	Brass construction: Stainless steel		s steel		
medium contact	CW614N nickel plated, cons		constru	ruction:	
	,		1.4305, 1.4310,		
			1.4541,	1.4541, FVMQ	
Switch housing material	Die-cast aluminium				
Weight	1,3 kg				
Mounting direction	Standard: horizontal flow; switching unit not recommended underneath; other installation positions are possible; the installation position affects the switching point and range.				

Dimensions



Paddle dimension and geometry are identical for DN 65. DN 80 and DN 100 $\,$

Attention! Process gasket not included in scope of supply

1

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Product Information

Handling and operation

Installation and operating instructions can be found in the separate operating manual.

Notes

2

- Adjustment: the switching point is set at factory in a defined nominal pipe diameter with the values specified in the "Technical data" table above. Different switching values on request. Adjustmens for silicone oil or ester oil are measured in H₂O due to their low viscosity.
 - Switching values and Q-max values for mineral oils depend on the viscosity and can deviate from the specified technical data.
- Switching points set at factory are secured by gluing and cannot be changed later.
- Paddle attachment secured by bonding.
- Include straight calming section of 10 x DN in inlet and outlet
- Provide a filter for contaminated media...
- It must be ensured that the values given for voltage, current, and power are not exceeded.
- The electrical details apply to ohmic loads.
 Capacitive and inductive loads must be operated using a protective circuit.

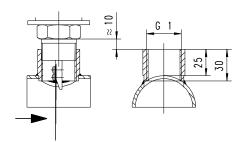
Ordering code 1. 2.

	1.	2.	3	4
UBX -				

)25H	Insertion thread R1	
20011 1000	Insertion thread R1	
Body material		
Л	brass	
(Stainless steel	
Contacts		
3	Single changeover contact	
)	Dounle changeover contact	
For nominal pipe diameter		
65	DN 65	
080	DN 80	
00	DN 100	
	Further pipe diameters on request	
	or nomin	

Installation recommendation

Use a tube with standard wall thickness as per DIN 2448



Pipe dimensions acc. to DIN 2448 used for calibration at factory. Deviating installation conditions have an influence to set adjustment-/switching values.

DN	pipe-outer-diam.	pipe wall thickness
65	76,1 mm	2,9 mm
80	88,9 mm	3,2 mm
100	114,3 mm	3,6 mm

Options

- Electrical connections
 - plug to DIN 43650-A
 - Harting plug
 - cable gland M 20x1,5 (opposite to flow direction)
- Optonal temperature range: on request
- Further process connections on request

Ordering information

- Specify direction of flow, medium, pipe diameter and switching point.
- For oils, state viscosity or oil type and temperature (e.g. ISO VG 68) Possible switching values are determind individually.
- Adjustment for switchpoint is made in defined pipe size.