HONSBER

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Product Information

Flow monitor UBX



- Suitable for nominal pipe sizes DN 65, DN 80 und DN 100 (further pipe sizes on request)
- Micro switch with gold contact
- Process connection with oval flange
- For temperature range -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.

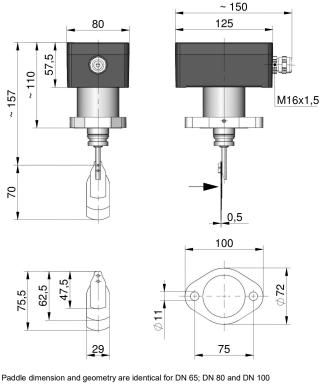
Technical Data

Switch	Micro switch		
Nominal diameter	DN 65, DN 80, DN 100		
Process connection	Oval flange		
Adjustment switch values (for decreasing flow) Q _{max.} (recommended)	DN 65: $6.0 \text{ m}^3/\text{h} \pm 2.0 \text{ m}^3/\text{h} \text{ with H}_2\text{O}$ DN 80: $10.5 \text{ m}^3/\text{h} \pm 2.5 \text{ m}^3/\text{h} \text{ with H}_2\text{O}$ DN 100: $20.5 \text{ m}^3/\text{h} \pm 3.0 \text{ m}^3/\text{h} \text{ with H}_2\text{O}$ Further switching values on request DN 65: $33 \text{ m}^3/\text{h} + 12\text{O}$ DN 80: $45 \text{ m}^3/\text{h} + 12\text{O}$		
,	DN 100: 75 m³/h H ₂ O (all values for v = about 2 m/s)		
Pressure rate	PN 16		
Medium temperature	-40+140 °C (no superheated steam)		
Ambient temperature	-40+90 °C		
Media	Water, mineral oil, silicone oil, ester oil		
Wiring diagram	Single changeover contact (wiring 0.371-2)		
	Double changeover contact (wiring 0.409-1) 1 2 3 4 5 6		

UBX-032EM / EK

Switching voltage/Switching			A max. ohmic	A max. inductive
current	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 n	nA
Protection class	2 – Safety insulation			
Ingress protection	IP 65 / IP 67			
	(When using an approved connection cable)			
Electrical connection	Cable gland M16x1,5			
	(for cable diam. 711 mm)			,
Materials with	Brass version:		Stainless steel	
medium contact	CW614N vernickelt,		version	
		305, 1.4310, 541. FVMQ	1.4305, 1.4310, 1.4541. FVMQ	
		ll flange: zinc	Oval flange: zinc	
	plated steel plated steel			
Switch housing material	Die-cast aluminium			
Weight	1,3 kg			
Mounting position		ard: horizontal flo	,	0
	not recommended underneath; other installation positions are possible; the			
	installation position affects the switching point and range.			

Dimensions



Attention! Process gasket not included in scope of supply

1

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Product Information

Handling and operation

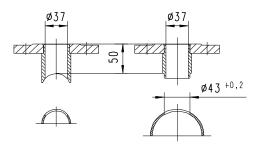
Installation and operating insructions can be found in the separate operating manual.

Notes

- 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..

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

Ordering code

	1.	2.	3.	4
UBX -				

1.	Process connection		
	032E	Flange	
2.	Body material		
	M	Brass	
	K	Stainless steel	
3.	Contacts		
	S	Single changeover contact	
	D	Double changeover contact	
4.	For nominal pipe diameter		
	065	DN 65	
	080	DN 80	
	100	DN 100	
		Further pipe diameters on request	

Options

- Electrical connections
 - plug DIN 43650-A
 - Harting plug
 - cable gland M 20 x 1,5 (opposite to flow direction)
- Optional temperature range: on request
- Further process connections on request

Ordering information

- Specify direction of flow, medium, pipe diameter and required switch point
- For oils, state viscosity or oil type and temperature (e.g. ISO VG 68 at 40°C). Possible switching values are determind individually
- Adjustment of switchpoint is made in defined pipe size.

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