

# **Flow switch UR1-...HM / HK**



UR1-015HM

- **Highly reproducible**
- Low pressure loss

- Hermetic separation between electrical and hydraulic component
- Stress-fixing of the switching unit by means of plastic head

#### **Characteristics**

The devices function via the principle of a spring-supported paddle, and the magnetic triggering of a reed switch.

## **Technical data**

Switch	Reed switch		
Nominal width	DN 3280		
Process connec- tion	brass / stainless steel - Screw-in thread G 1 <sup>1</sup> / <sub>4</sub> G 1 <sup>1</sup> / <sub>2</sub> or G2"G3"		
Switching range	23118 l/min	For details see	
Q <sub>max.</sub>	up to 600 l/min	table "Ranges"	
Hysteresis	Depending on the switching value, minimum $\pm 0.7$ l/min		
Tolerance	±15 % of full scale value		
Pressure resistance	PN 25 bar		
Medium temperature	-20+110 °C		
Ambient temperature	-20+70 °C		
Media	Water, oils (gases and aggressive media available on request)		

Wiring	Wiring 0.225	
	normally opened	or 'normally closed'
	$ \begin{array}{c}     \overline{1} \\     1 \\     brown \\     blue \\     (white) \end{array} $	$ \begin{array}{c} \overline{} \\ 1 \\ 2 \\ brown \\ blue \\ (white) \end{array} $
Switching voltage	230 V AC	
Switching current	1 A	
Switch performance	50 VA	
Cable length	1.5 m	
Ingress protection	IP 65	
Protection class	(1PE connection)	
Materials medium-contact	Brass construction: CW614N , 1.4301, 1.4571, 1.4310, Hard ferrite, NBR	<i>Stainless steel con- struction:</i> 1.4305, 1.4571, 1.4301, 1.4310, Hard ferrite, Viton
Non-medium- contact materials	РОМ	
Weight	UR1-015HM / HK: 0.18 kg UR1-032HM / HK: 0.38 kg	
Installation location	Standard: horizontal inwards flow; switching unit not recommended underneath; other in- stallation positions are possible; the installa- tion position affects the switching point and range.	

# Ranges

The adjustment range is suitable for horizontally decreasing flows. Measured in DIN 2448 tube with normal wall thickness.

Types	DN	Adjustment range I/min H <sub>2</sub> O	<b>Q</b> <sub>max.</sub> recommended
UR1-015HM	DN 32	23 - 30	100
	DN 40	33 - 44	150
UR1-032HM	DN 50	38 - 48	200
	DN 65	60 - 84	400
	DN 80	81 - 118	600
UR1-015HK	DN 32	23 - 30	100
	DN 40	33 - 44	150
UR1-032HK	DN 50	38 - 48	200
	DN 65	60 - 84	400
	DN 80	81 - 118	600

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โทรศัพท์ : 02 530 1714, 02 932 1711 มือถือ : 086 360 8600

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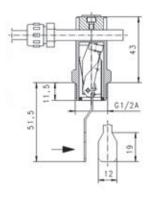
อีเมล : contact@prctech.net LINE ID1 : prctec-info, LINE ID2 : @prctec

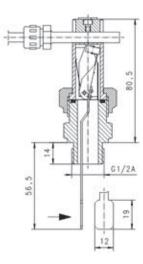


## Dimensions

UR1-015H.

UR1-032H.



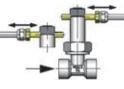


# Handling and operation

#### Note

- Include straight calming section of 5 x DN in inlet and outlet
- Include a filter if the media are dirty (use magnetic filter for ferritic components).
- 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, inductive and lamp loads must be operated using a protective circuit.

#### Adjustment



UR1 - loosen bolts, push the switching current tube into the desired position. Retighten the bolts. Normally closed or normally open Normally closed

# **Ordering code**

UR1 Q=0		2. 3. 4.	
1.	Nominal widths		
	015	DN 3240	
	032	DN 5080	
2.	Process connection		
	Н	Screw-in thread	
3.	Connection material		
	M	Brass	
	K	stainless steel	
4.	Switching unit options		
	A O	For switching unit ATEX A-U1.1	

For switching unit ATEX A-U1.1 The switching head is ordered in addition.

#### Options

- Switching ranges for oil or gas •
- Special values
- Soldered copper fitting Adhesive PVC fitting

### 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).
- For gases, state pressure (relative or absolute), temperature and medium (e.g. air) (enquire about range).