

# Flow Switch UR3K-...G / A



- Threaded connection
- Reed switch
- Low pressure loss
- Compact design
- Threaded connection
- Plug DIN 43650-A / ISO 4400

# Characteristics

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

Switch	reed switch		
Nominal width	DN 1050		
Process connection	female thread G <sup>3</sup> / <sub>8</sub> G 1 (further process connections available on request)		
Switching range	3.569 l/min	for details see	
Q <sub>max.</sub>	to 150 l/min table "Ranges"		
Tolerance	±15 % of full scale value	е	
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	normally open (n.o.) No. 0.372		
Switching voltage	max. 230 V AC		
Switching current	max. 1 A		
Switching capacity	max. 50 VA		
Protection class	2 - safety insulation		
Ingress protection	IP 65		
Electrical connection	plug DIN 43650-A / ISO 4400, optionally for round plug connector M12x1, 4-pole		
Materials medium-contact	Brass construction: CW617N nickelled, CW614N nickelled, 1.4310, 1.4301, hard ferrite, NBR	Stainless steel construction: 1.4305, 1.4571, 1.4310, 1.4310, Hard ferrite PTFE coated, FKM	



Non-medium contact materials	ABS, PA, NBR	
Weight	see table "Dimensions and weights"	
Installation location	Standard: horizontal inwards flow; switching head not recommended underneath; other installation positions are possible; the installation position affects the switching point and range.	

#### Ranges

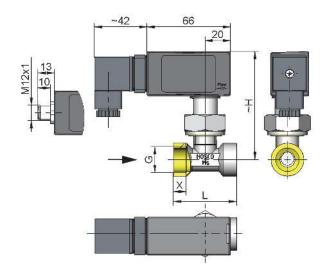
Details in the table correspond to horizontal inwards flow with decreasing flow rate.

G	DN	Switching range I/min H <sub>2</sub> O	Types	<b>Q</b> <sub>max.</sub> recommended
G 3/8	DN 10	3.5 - 5.0	UR3K-010G.050	10
G 1/2	DN 15	5.0 - 6.5	UR3K-015G.065	20
G 3/4	DN 20	6.0 - 8.5	UR3K-020G.085	40
G 1	DN 25	12.0 - 15.0	UR3K-025G.150	60
G 1 <sup>1</sup> / <sub>4</sub>	DN 32	20.0 - 27.0	UR3K-032G.270	80
G 1 <sup>1</sup> / <sub>2</sub>	DN 40	34.0 - 44.0	UR3K-040G.440	100
G 2	DN 50	54.0 - 69.0	UR3K-050G.690	150

Special ranges are available.

#### **Dimensions and weights**

G	Types	Н	L	X	Weight kg	
G <sup>3</sup> / <sub>8</sub>	UR3K-010GM	87	87 50	10	0.45	
	UR3K-010GK				0.50	
G <sup>1</sup> / <sub>2</sub>	UR3K-015GM		UR3K-015GM 50	50	10	0.40
	UR3K-015GK				0.45	
G 3/4	UR3K-020GM	88		12		
	UR3K-020GK					
G 1	UR3K-025GM	92				
	UR3K-025GK				0.50	
G 1 <sup>1</sup> / <sub>4</sub>	UR3K-032GM	96				
	UR3K-032GK				0.60	
G 1 <sup>1</sup> / <sub>2</sub>	UR3K-040GM	99				
	UR3K-040GK				0.75	
G 2	UR3K-050GM	108			0.85	
	UR3K-050GK				1.05	









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#### Handling and operation

#### Note

- Include straight calming section of 5 x DN in inlet and outlet
- When tightening the union nut, the connection piece must be countered using an open-ended spanner (SW 19).
- If the media are dirty, install a filter (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

To adjust, open the slider. Adjustment is made using the adjustment screw with a lengthways slot; this is located under the valve.



Turn clockwise for a lower switching point; turn anticlockwise for a higher switching point.

After adjustment, close the slider again.

Example: The adjustment range 20 to 27 l/min corresponds to 7 l/min Adjustment option in 7 revolutions. Adjustment is therefore 1 I/min for each revolution.

# Ordering code

	1.	2.	3.	4.
UR3K -		G		

1.	Nominal width			
	010	DN 10 - G <sup>3</sup> / <sub>8</sub>		
	015	DN 15 - G <sup>1</sup> / <sub>2</sub>		
	020	DN 20 - G <sup>3</sup> / <sub>4</sub>		
	025	DN 25 - G 1		
	032	DN 32 - G 1 <sup>1</sup> / <sub>4</sub>		
	040	DN 40 - G 1 <sup>1</sup> / <sub>2</sub>		
	050	DN 50 - G 2		
2.	Process	connection		
	G	female thread		
3.	Connection material			
	M	brass		
	K	stainless steel		
4.	Switching range H <sub>2</sub> O for horizontal inwards flow			
	050	3.5 - 5.0 l/min		
	065	5.0 - 6.5 l/min		
	085	6.0 - 8.5 l/min		
	150	12.0 - 15.0 l/min		
	270	20.0 - 27.0 l/min		
	440	34.0 - 44.0 l/min		
	690	54.0 - 69.0 I/min		

# **Options**

- Connection for round plug-in connector
- Signal lamp red or red/green in the plug DIN 43650-A
- Protective bellows
- Switching ranges for oil or gas
- Special values
- Soldered copper fitting Adhesive PVC fitting
- Male thread G 1/2 A brass

# **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).



