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Product Information

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.

Technical data

Technical uala		
Switch	reed switch	
Nominal width	DN 1050	
Process connection	female thread G ³ / ₈ G 1 (further process connections available on request)	
Switching range	3.569 l/min	for details see
Q _{max.}	to 150 l/min	table "Ranges"
Tolerance	±15 % of full scale valu	e
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	2
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

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UR3K-010..050G / A M / K

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.	

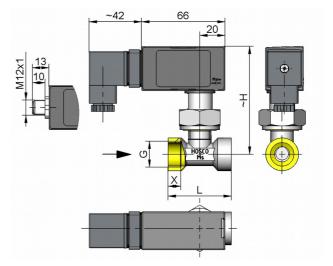
Ranges

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

G	DN	Switching range I/min H ₂ O	Types	Q _{max.} 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 ¹ / ₄	DN 32	20.0 - 27.0	UR3K-032G.270	80
G 1 ¹ / ₂	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 ³ / ₈	UR3K-010GM	87	50	10	0.45
	UR3K-010GK				0.50
G ¹ / ₂	UR3K-015GM		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 ¹ / ₄	UR3K-032GM	96			
	UR3K-032GK				0.60
G 1 ¹ / ₂	UR3K-040GM	99	1		
	UR3K-040GK				0.75
G 2	UR3K-050GM	108			0.85
	UR3K-050GK				1.05



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Product Information

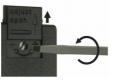
Handling and operation

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 l/min for each revolution.

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UR3K-010..050G / A M / K

	1. 1. 1. 1.	2. 3. 4.			
1.	Nominal	width			
	010	DN 10 - G ³ / ₈			
	015	DN 15 - G ¹ / ₂			
	020	DN 20 - G ³ / ₄			
	025	DN 25 - G 1			
	032	DN 32 - G 1 ¹ / ₄			
	040	DN 40 - G 1 ¹ / ₂			
	050	DN 50 - G 2			
2.	Process connection				
	G	female thread			
3.	Connecti	Connection material			
	М	brass			
	K	stainless steel			
4.	Switching	g range H₂O			
4. for horizontal inwards flow		ontal 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 I/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).

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