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## **Product Information**

# Flow Switch UM3K-...V



- Soldered/welded connection
- Micro 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 micro switch.

#### **Technical data**

Switch	micro switch	
Nominal width	DN 1580	
Process	soldered/welded nozzle	
connection	(further process connections available on request)	
Switching range	10268 l/min	for details see
Q <sub>max</sub> .	to 600 l/min	table "Ranges"
Tolerance	±15 % of full scale val	ue
Pressure	PN 25 bar	
Medium temperature	-20+110 °C	
Ambient temperature	-20+70 °C	
Media	water (oils, gases and aggressive media available on request)	
Wiring	changeover no. 0.371	
	optionally changeover No. 0.282	
	optionally red or red / DIN 43650-A plug	green diode in the
Switching voltage	max. 250 V AC (gold contact max. 125 V AC / 30 V DC)	
Switching current	max. 5 A (round plug connector max. 4A) (gold contact max. 100 mA)	
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	

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## **Sensors and Instrumentation**

Materials medium-contact	Brass construction:Stainless steelCW617N, CW614Nconstruction: 1.4305,nickelled, 1.4310,1.4571, 1.4310,1.4301, hard ferrite,1.4310,NBRHard ferrite PTFEcoated, FKM		
Non-medium- contact materials	ABS, PA, NBR		
Weight	0.3 kg		
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

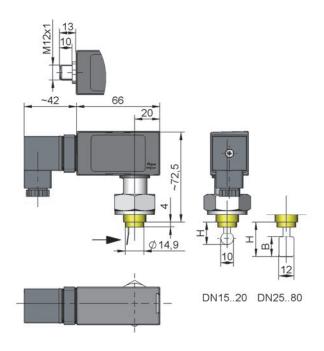
Details in the table correspond to horizontal inwards flow with decreasing flow rate  $% \left( {{{\rm{D}}_{\rm{T}}}} \right)$ 

DN	Switching range I/min H <sub>2</sub> O	Types	<b>Q</b> <sub>max.</sub> recommended
DN 15	10.0 - 13.0	UM3K-015V.	20
DN 20	17.5 - 22.0		40
DN 25	18.0 - 22.5	UM3K-025V.	80
DN 32	44.0 - 55.5		100
DN 40	55.5 - 72.0		150
DN 50	75.0 - 90.0	UM3K-050V.	200
DN 65	151.0 - 186.0		400
DN 80	228.0 - 238.0		600

Special ranges are available.

## Dimensions

DN	Types	Н	D	Α	В
DN 1520	UM3K-015V.	18.5	13	-	-
DN 2550	UM3K-025V.	27.0	-	12	16
DN 5080	UM3K-050V.	40.5			19



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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.
- The electrical details apply to offinic loads.
   Capacitive and inductive 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.



## Sensors and Instrumentation

Judening	CO	ue		
	1.	2.	3.	
UM3K -		V		

#### O=Option

	No			
1.	Nominal width			
	015	DN 1525		
	025	DN 2540		
	050	DN 5080		
2.	Process connection			
	V	soldered/welded nozzle		
3.	Connection material			
	М	brass		
	K	stainless steel		

## Options

- Connection for round plug-in connector
- Signal lamp red or red/green in the plug DIN 43650-A
- Gold contact 125 V AC / 30 V DC, 100 mA
- Protective bellows
- Switching ranges for oil or gas
- Special values
- 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).

