## GHM Messtechnik GmbH - Location Honsberg

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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 I/min	table "Ranges"		
Tolerance	±15 % of full scale value			
Pressure	PN 25 bar			
Medium temperature	-20+110 °C			
Ambient	-20+70 °C			
temperature				
Media	water (oils, gases and aggressive media available on request)			
Wiring	changeover no. 0.371	1 2 3		
	optionally changeover No. 0.282	3 1 2		
	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			
	4-pole			



## UM3-015..050V M / K

Materials medium-contact	Brass construction: CW617N, 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	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

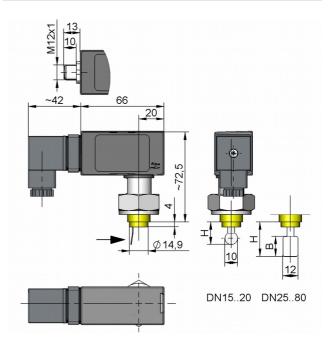
Details in the table correspond to horizontal inwards flow with decreasing flow rate  $% \left( 1\right) =\left( 1\right) \left( 1\right) \left($ 

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		20
DN 25	18.0 - 22.5	UM3K-025V.	40
DN 32	44.0 - 55.5		40
DN 40	55.5 - 72.0		40
DN 50	75.0 - 90.0	UM3K-050V.	80
DN 65	151.0 - 186.0		80
DN 80	228.0 - 238.0		80

Special ranges are available.

## **Dimensions**

DN	Types	Н	D	Α	В
DN 1520	UM3K-015V.	18.5	13	-	-
DN 2540	UM3K-025V.	27.0	-	12	16
DN 5080	UM3K-050V.	40.5			19



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## **Product Information**

# **GHM-HONSBERG**

UM3-015..050V M / K

## 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 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.

## Ordering code

1. 2. 3. **V** 

#### **O**=Option

1.	Nominal width		
	015	DN 1520	
	025	DN 2540	
	050	DN 5080	
2.	Process connection		
	V	soldered/welded nozzle	
3.	Connection material		
	M	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).