

Product Information

UM3K-010..050G / A M / K / P

Flow Switch
UM3K-...G / A



- Threaded 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/sensor	micro switch	
Nominal width	DN 10..50	
Process connection	female thread G 3/8..G 1 (further process connections available on request)	
Switching range	4..93 l/min	for details see table "Ranges"
Q_{max.}	to 150 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	changeover no. 0.371 optionally changeover no. 0.282 optionally red or red / green diode in the DIN 43650-A plug	
Switching voltage	max. 250 V AC	
Switching current	max. 5 A (round plug connector max. 4 A)	
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	<i>Brass construction:</i> CW617N nickelled, CW614N nickelled, 1.4310, 1.4301, hard ferrite, NBR	<i>Stainless steel construction:</i> 1.4305, 1.4571, 1.4301, 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 l/min H ₂ O	Types	Q _{max.} recommended
G 3/8	DN 10	4.0 - 5.5	UM3K-010G.055	10
G 1/2	DN 15	5.5 - 7.0	UM3K-015G.070	20
G 3/4	DN 20	7.5 - 10.0	UM3K-020G.100	40
G 1	DN 25	14.0 - 18.0	UM3K-025G.180	60
G 1 1/4	DN 32	22.0 - 30.0	UM3K-032G.300	80
G 1 1/2	DN 40	37.0 - 50.0	UM3K-040G.500	100
G 2	DN 50	67.0 - 93.0	UM3K-050G.930	150

Special ranges are available.

Dimensions and weights

G	Types	H	L	X	Weight kg
G 3/8	UM3K-010GM	87	50	10	0.45
	UM3K-010GK				0.50
G 1/2	UM3K-015GM	88	50	10	0.40
	UM3K-015GK				0.45
G 3/4	UM3K-020GM	92	96	12	0.50
	UM3K-020GK				0.60
G 1	UM3K-025GM	99	99	12	0.75
	UM3K-025GK				0.85
G 1 1/4	UM3K-032GM	108	108	12	0.85
	UM3K-032GK				1.05
G 1 1/2	UM3K-040GM	108	108	12	0.75
	UM3K-040GK				0.85
G 2	UM3K-050GM	108	108	12	0.85
	UM3K-050GK				1.05

