

GENERAL CHARACTERISTICS

Mechanical Flow Switch for liquids or gaseous media with spring supported piston and magnetic actuation of a reed switch. Robust design, produced in materials brass or stainless steel.

- * compact dimension
- * good repeatability
- * dirt-resistance
- * high switch capability
- * hermetic separation of mechanical and electrical component

Female thread G1/4 to G1 brass/stainless steel



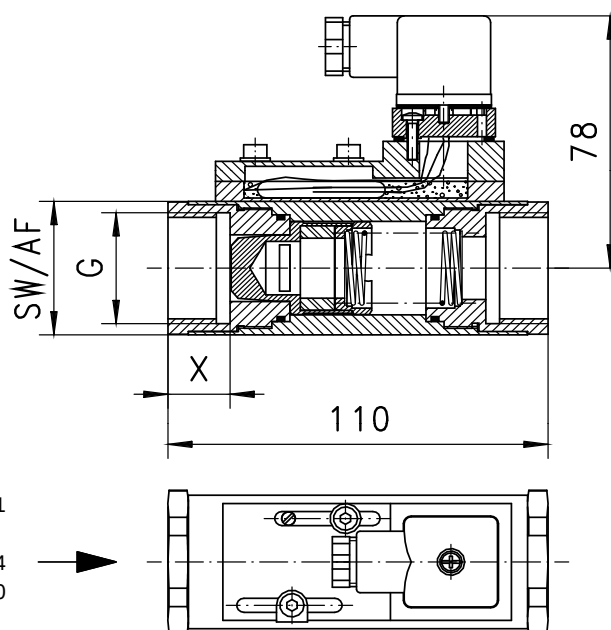
MR1K-010GM004

TECHNICAL DATA

	G	Type	PN bar	Qmax. recom. l/min H ₂ O	adjustable range l/min H ₂ O			AF mm	X mm	weight kg
brass	G 1/4	MR1K-008GM004	200	10	0.4 - 4			40	15	1.3
	G 3/8	MR1K-010GM...	200	20	0.4 - 4	1 - 10		40	15	1.3
	G 1/2	MR1K-015GM...	200	40	1 - 10	2 - 20	3 - 30	40	15	1.2
	G 3/4	MR1K-020GM...	200	60	3 - 30	4 - 40		40	18	1.2
	G 1	MR1K-025GM...	200	80	4 - 40	6 - 60		40	18	1.1
stainless steel	G 1/4	MR1K-008GK004	200	10	0.4 - 4			41	15	1.3
	G 3/8	MR1K-010GK...	200	20	0.4 - 4	1 - 10		41	15	1.3
	G 1/2	MR1K-015GK...	200	40	1 - 10	2 - 20	3 - 30	41	15	1.2
	G 3/4	MR1K-020GK...	200	60	3 - 30	4 - 40		41	18	1.2
	G 1	MR1K-025GK...	200	80	4 - 40	6 - 60		41	18	1.1

Adjustable range is indicated for horizontally decreasing flow.

tolerance	±5% of full scale
media temperature	max. 120°C
average pressure loss	0.5 bar at Qmax.
hysteresis	depending on switch value minimum 0.5 l/min.

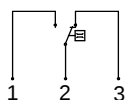


MATERIALS

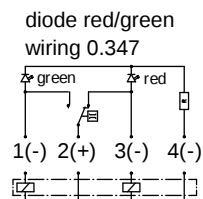
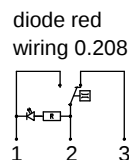
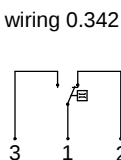
	MR1K-...GM	MR1K-...GK
body	brass Ms58 nickel plated	stainless steel 1.4571
piston	brass Ms58	stainless steel 1.4404
spring	stainless steel 1.4310	stainless steel 1.4310
magnet	bariumferrite	bariumferrite PTFE plated
seal	NBR	viton
switch head	polycarbonate	polycarbonate

ELECTRICAL DATA

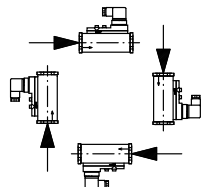
reed switch - wiring 0.213 change over
250 V AC 1.5 A 50 VA
plug DIN 43650-A
protection class 2
protection class IP 65



OBASIC
Programme-
options



MOUNTING POSITION



Installation position may
influence switch value.

METERING SUBSTANCES



water



oil



gas/air



design stainless steel MR1K-...GK
for aggressive liquids

NOMENCLATURE

For combination see table "technical data"

MR1K-	008	G	M	004		basic type
MR1K-					●	specification
MR1KJ-					●	Flow Switch
MR1KO-					○	Flow Switch with magnetic indication
	008				●	Flow Switch with lateral flow metering unit
	010				●	
	015				●	
	020				●	
	025				●	
		G			●	nominal diameter
			M		●	DN 8 - G1/4
			K		●	DN 10 - G3/8
				004	●	DN 15 - G1/2
				010	●	DN 20 - G3/4
				020	●	DN 25 - G1
				030	●	female thread
				040	●	brass
				060	●	stainless steel
					○	adjustable range
					○	H ₂ O horizontal
					○	0.4 - 4 l/min
					○	1 - 10 l/min
					○	2 - 20 l/min
					○	3 - 30 l/min
					○	4 - 40 l/min
					○	6 - 60 l/min
				E	○	connection by local electronic (e.g. omni-MR1K)
Programme option					○	wiring 0.342
BASIC					○	wiring 0.208 - diode red integrated in plug DIN 43650-A
Special option					□	wiring 0.347 - diode red/green integrated in plug DIN 43650-A
VARIO					□	setting / adjustable ranges for oil or gas
					□	special ranges / selected hysteresis / vibration-proof
					□	high pressure PN 500 bar
					□	two to four independent switch heads

IMPORTANT FOR YOUR ORDER

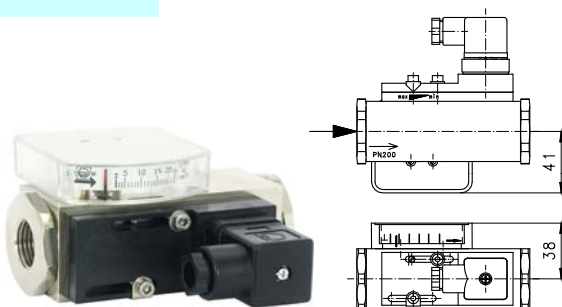
- Please indicate flow direction, metering substance and adjustable range with your order.
- With viscous liquids please indicate viscosity, temperature and metering substance (adjustable range on request)
- With gaseous media indicate pressure (relative or absolute), temperature and metering substance (adjustable range on request)

OPTION

○ MR1KO

Flow Switch with lateral flow metering

adjustable range	metering range
l/min H ₂ O	l/min H ₂ O
0.4 - 4	0.5 - 5
1 - 10	1 - 12
2 - 20	2 - 23
3 - 30	4 - 34
4 - 40	5 - 45
6 - 60	5 - 65



○ MR1KJ

flow switch with
magnetic indication 10-100%



Metering range is indicated for horizontally increasing flow. Protection class IP60 809. Additional weight 0.1kg

All technical changes reserved

●BASIC Standard ○BASIC Programme option □VARIO Special option ⊕ PLUS Accessories

✗ not recommendable