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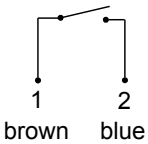
Flow switch Fluvatest US2-...HH / VM

- **Highly reproducible**
- **Low pressure loss**
- **Hermetic separation between electrical and hydraulic component**

Characteristics

The paddle flow rate controller in plastic design has a titanium axis which assures a low-friction bearing. The paddle follows the flow rate against the force of two magnets acting as springs. The paddle magnet also activates a reed contact positioned outside the flow chamber.
The paddle is available in two standard lengths, wherein each paddle can also be shortened at a predetermined breaking point.

Technical data

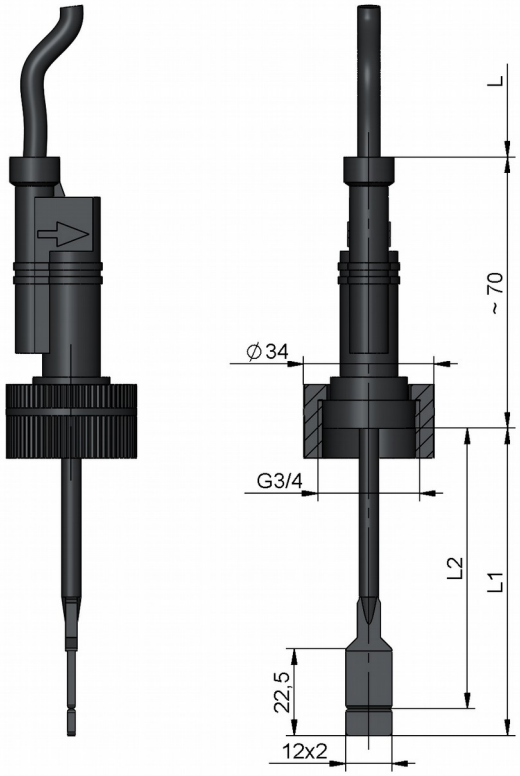
Switch	Reed switch	
Nominal width	DN 25 – 80	
Process connection	Union nut G 3/4	
Switching point	3.. 62 l/min H_2O	For details see table "Ranges"
$Q_{max.}$	up to 600 l/min	
Tolerance	±15 %	
Pressure resistance	PN 10 bar	
Medium temperature	-20 – +85 °C	
Ambient temperature	-20 – +70 °C	
Media	Water, oils	
Wiring	normally opened No. 0.372 	
Switching voltage	max. 240 V AC / 46 V DC	
Switching capacity	max. 100 VA / W	
Switching current	max. 1 A	
Ingress protection	IP 65	
Cable	0.5 m (optional 1 m / 2 m / 3 m)	
Materials medium-contact	Noryl (PPO), titanium, barium ferrite, Ms58 (with version VM)	
Non-medium-contact materials	Noryl	
Weight	see table "Dimensions and weights"	
Installation location	Installation location influences the adjustment range! The installation position with a flow from top to bottom is not permitted.	

Ranges

Type	Nominal width	Switching point l/min H_2O				$Q_{max.}$ rec. l/min H_2O
		Original paddle (L1)		Shortened paddle (L2)		
		On	Off	On	Off	
US2-025..	DN 25	5	3	9	7	60
	DN 32	17.5	8	24	14.5	100
	DN 40	21.5	14.5	35	23.5	150
US2-050..	DN 50	18	9	30	16	230
	DN 65	39	25	57	31	400
	DN 80	60	40	82	62	600

Dimensions and weights

US2-...HH



US2-...VM

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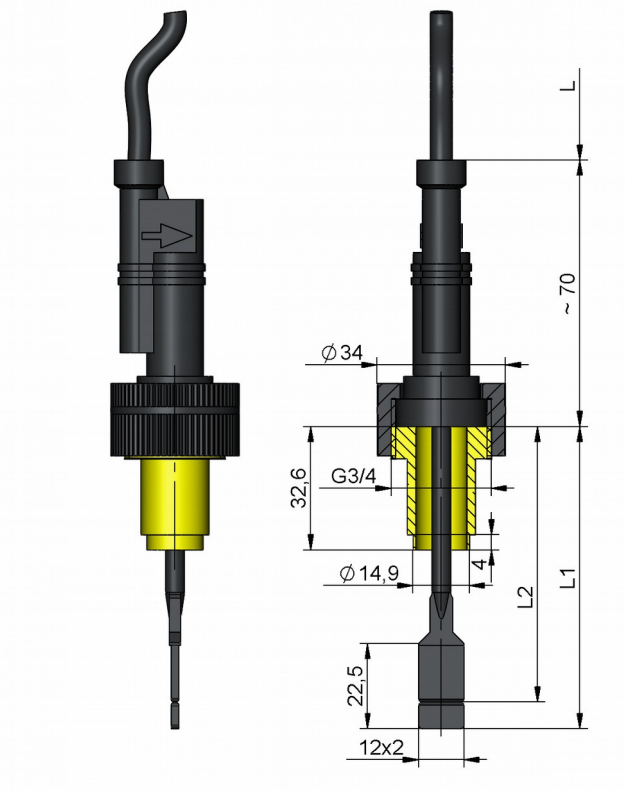
Product information

US2-...HH / VM



Ordering code

US2- [1.] [2.]

❍=Option

1.	**Nominal width**		
	025		DN 25 – 40
	050		DN 50 – 80
2.	**Process connection**		
	HH		Screw-in thread G $^{3}/_{4}$ Noryl
	VM		Brass soldering nozzles
	VK	❍	Stainless steel welded nozzles
	VS	❍	Steel welded nozzles

Options

- Viton / NBR seal

Ordering information

- Specify low direction, material and adjustment range.
- For viscous media specify viscosity, temperature, and medium (e.g. ISO VG68) (inquire about range).

Types	L1 mm	L2 mm	Weight g	
			..HH	..VM
US2-025..	57	50	45	100
US2-050..	80	73	50	105

The adjustment range is specified for horizontal flows.
Measured in DIN 2448 tube with normal wall thickness

Handling and operation

- Include straight calming section of 5 x DN in inlet and outlet.
- 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.