

## Flow switch HR2K2



- Low pressure loss
- Solid construction

### Characteristics

Mechanical flow switch for fluid media, with spring-supported piston and magnetic triggering of a reed switch. Robust construction in brass or stainless steel.

### Technical data

<b>Switch</b>	reed switch	
<b>Nominal width</b>	DN 32 / 40 / 50	
<b>Process connection</b>	female thread G 1 <sup>1</sup> / <sub>4</sub> ..G 2 (further process connections available on request)	
<b>Switching range</b>	15.. 80 l/min	for details see table "Ranges"
<b>Pressure loss</b>	~ 1 bar at Q <sub>max</sub>	
<b>Q<sub>max.</sub></b>	up to 300 l/min	
<b>Tolerance</b>	±10 % of full scale value	
<b>Pressure resistance</b>	PS 200 bar	
<b>Media temperature</b>	-20..+120 °C	
<b>Ambient temperature</b>	-20..+70 °C	
<b>Media</b>	Water	
<b>Wiring</b>	No. 0.378 normally open (n.o.) not used 	
<b>Switching voltage</b>	max. 230 V AC	
<b>Switching current</b>	max. 0.5 A	
<b>Switch performance</b>	max. 50 VA	
<b>Protection class</b>	2 - Safety insulation	
<b>Ingress protection</b>	IP 67	
<b>Electrical connection</b>	for round plug connector M12x1, 4-pole	
<b>Materials medium-contact</b>	<i>Brass construction:</i> CW614N nickelled, CW614N, 1.4305, 1.4310, hard ferrite	<i>Stainless steel construction:</i> 1.4571, 1.4310, hard ferrite

<b>Non-medium-contact materials</b>	CW614N nickelled, PC, 1.4301,
<b>Weight</b>	see table "Dimensions and weights"
<b>Installation location</b>	Standard: horizontal inwards flow from the left; other installation positions are possible; the installation position affects the switching point and range.

### Ranges

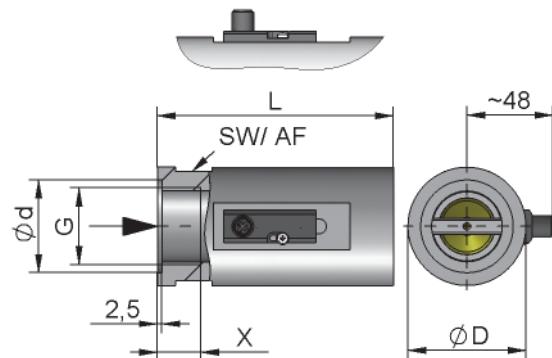
For switching ranges, the details in the table correspond to horizontal inwards flow and decreasing flow rate; for display ranges they correspond to horizontal inwards flow and increasing flow rate.

Switching range l/min H <sub>2</sub> O	Display range l/min H <sub>2</sub> O	Q <sub>max.</sub> recommended
15 - 30	10 - 60	300
20 - 40	15 -100	300
25 - 50	20 -200	300
30 - 80	30 -300	300

Special ranges are available.

### Dimensions and weights

DN	G	Types	L	ØD	SW	Ød	X	Weight kg
32	G 1 <sup>1</sup> / <sub>4</sub>	HR2K2-032GM	130	65	60	51	23	2.6
40	G 1 <sup>1</sup> / <sub>2</sub>	HR2K2-040GM	170			56	24	3.2
50	G 2	HR2K2-050GM	185	80	75	70	26	5.3



### additional weights for options

Display O1 / Z1 0.05 kg

**Product Information**

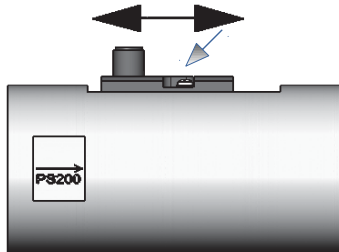
**Handling and Operation**

**Note**

- 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.

**Adjustment**

If it is necessary to adjust the switching value, the switching head can be adjusted lengthways. When the switching value is reached, the switching unit is fixed in place by a fastening bolt.



**Ordering code**

HR2K2    1.     2.     3.  G    4.     5.

<b>1. Display options</b>	
-	no mechanical display
O1-	with measurement display at side O1
Z1-	with frontal measurement display Z1
<b>2. Nominal width</b>	
032	DN 32 - G 1 <sup>1</sup> / <sub>4</sub>
040	DN 40 - G 1 <sup>1</sup> / <sub>2</sub>
050	DN 50 - G 2
<b>3. Process connection</b>	
G	female thread
<b>4. Connection material</b>	
M	brass
K	stainless steel
<b>5. Switching range H<sub>2</sub>O for horizontal inwards flow</b>	
030	15 - 30 l/min
040	20 - 40 l/min
050	25 - 50 l/min
080	30 - 80 l/min



HR2K201-



HR2K2Z1-

**Options**

- Special values
- two to four switching heads

**Ordering information**

- Specify direction of flow, medium, and switching range.