Senseca Germany GmbH

Tenter Weg 2-8 | 42897 Remscheid | GERMANY Phone +49 2191 9672-0 | Fax +49 2191 9672-40 www.senseca.com | info@senseca.com | WEEE Reg. No. DE 93889386



Product Information

Flow switch HR2K1



- Optimized for use with water
- 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

Switch	reed switch				
Nominal width	DN 32 / 40 / 50				
Process	female thread G 11/4G 2				
connection	(further process connections available on				
	request)				
Switching range	10150 l/min for details see				
Pressure loss	~ 1 bar at Q _{max} table "Ranges"				
Q _{max.}	up to 300 l/min	table Hanges			
Tolerance	±10 % of full scale va	lue			
Pressure	PS 200 bar				
resistance					
Media	-20+120 °C				
temperature					
Ambient	-20+70 °C				
temperature					
Media	water				
Wiring	transformer No. 0.213	1 2 3			
	optionally transformer No. 0.282	3 1 2			
	optionally red or red/green signal lamp in the plug DIN 43650-A / ISO 4400				
Switching voltage	max. 250 V AC				
Switching current	max. 1.5 A				
Switch performance	max. 50 VA				
Protection class	2 - Safety insulation				
Ingress protection	IP 65				

HR2K1-032..050

Electrical connection	plug DIN 43650-A / ISO 44000, optionally round plug connector M12x1, 4-pole				
Materials medium-contact	Brass construction: Stainless steel construction: CW614N nickelled, construction: 1.4571, 1,4310, hard ferrite				
Non-medium- contact materials	CW614N nickelled, PC, PA, NBR, 1.4301, CW508L nickelled,				
Weight	see table "Dimensions and weights"				
Installation location	Standard: horizontal inwards flow from the left; other installation positions are possible; the installation position affects the switching point and range.				

Ranges

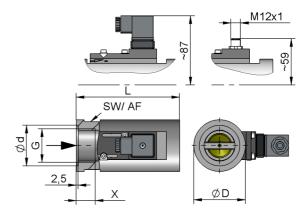
For switching ranges, the details in the table correspond to horizontal inwards flow and decreasing flow rate; for display ranges they correspond to horizontal inwards flow and increasing flow rate.

Switching range I/min H ₂ O	Display range I/min H ₂ O	Q _{max.} recommended
10 - 40	10 - 60	300
15 - 60	15 -100	300
20 - 90	20 -200	300
25 -150	30 -300	300

Special ranges are available.

Dimensions and weights

DN	G	Types	L	ØD	sw	Ød	Х	Weight kg	
32	G 1 ¹ / ₄	HR2K1-032GM	130	65	60	51	23	2.6	
40	G 1 ¹ / ₂	HR2K1-040GM	170	05	03	00	56	24	3.2
50	G 2	HR2K1-050GM	185	80	75	70	26	5.3	



additional weights for options

Display O1 / Z1 0.05 kg

Senseca Germany GmbH

Tenter Weg 2-8 | 42897 Remscheid | GERMANY Phone +49 2191 9672-0 | Fax +49 2191 9672-40 www.senseca.com | info@senseca.com | WEEE Reg. No. DE 93889386



HR2K1-032..050

Product Information

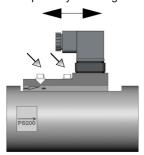
Handling and Operation

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 set the switching value, the switching head can be adjusted lengthways. When the switching value is reached, the switching unit is fixed in place by fastening bolts.



Ordering code

	1.	2.	3.	4.	5.
HR2K1			G		

1.	Displa		
	-	no mechanical display	
	01-		
	Z1-	with frontal measurement display Z1	
2.	Nomir	nal width	
	032	DN 32 - G 1 ¹ / ₄	HR2K1O1-
	040	DN 40 - G 1 ¹ / ₂	
	050	DN 50 - G 2	
3.	Proces		
	G	female thread	
4.	Conne		
	M		
	K	stainless steel	HR2K1Z1-
5.	Switch		
J.	inward		
	040	10 - 40 l/min	
	060	15 - 60 l/min	
	090	20 - 90 l/min	
	150	25 -150 l/min	

Options

- Special values
- Signal lamp red or red/green
- Connection for round plug connector M12x1
- Rhodium contact 250 V AC, 0.5 A, 30 VA
- Two to four switching heads
- ATEX switching heads A-H4.1 and A-H4.2

Ordering information

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