Senseca Germany GmbH

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Product Information

EFK2

Flow Switch EFK2



- Very small installation width, therefore very narrow pipework is possible
- Mo moving parts in the medium being monitored
- Installation largely independent of nominal width

Characteristics

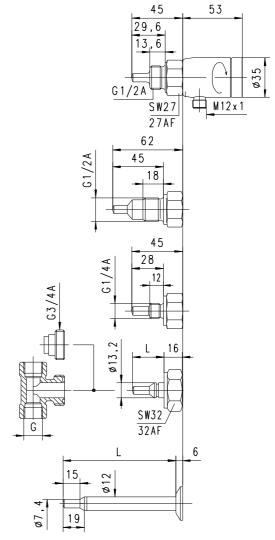
The EFK2 flow switch controls the flow speed of fluid media. Its compact form combines the built-in sensor, a two-colour LED status display, and a switching point which can be set using a potentiometer; it has push-pull or relay output. A flexible gooseneck can be installed between the sensor and the electronics housing, so that the best possible view of the flow switch display is provided even in awkward installation locations.

Technical data

Sensor	calorimetric measurement principle				
Process	screw-in thread G ¹ / ₄ AG ¹ / ₂ A,				
connection	push-in sensor Ø12 mm				
Metering range	water 2150 cm/s or 3300 cm/s				
Metering range	oil available on request				
Measurement	+10 % of full scale value				
accuracy	210 70 of fall sould value				
Dynamics	13 seconds in water				
Pressure	PN 100 bar optionally PN 200 bar				
resistance	The root ban optionary the 200 ban				
Media	070 °C				
temperature					
Ambient	-20+70 °C				
temperature					
Temperature	4 K/s				
gradient					
Supply voltage	24 V DC / AC ±10 %				
Current	max. 70 mA				
consumption					
Switching output	galvanically separated relay contact or				
	"push-pull" transistor output (resistant to				
	short circuits and reversal polarity protected)				
Output loading	2 A / 30 V DC/AC max. for relay,				
	100 mA / 24 V max. for transistor output				
Display	red / green LED				
	(red < limit value, green > limit value)				
Adjustment	as input				
potentiometer	for a constant to the second of the second o				
Electrical connection	for round plug connector M12x1, 4-pole				
	Van				
Resistant to short circuits	yes				
	Van				
Reversal polarity protected	yes				
	IP 65				
Ingress protection	ור טט				

Materials medium-contact	1.4571
Materials, non- medium-contact	1.4305
Weight	approx. 0.3 kg
Conformity	CE

Dimensions



Gooseneck option



A gooseneck (optional) between the electronics head and the primary sensor provides complete freedom in the orientation and reading direction of the sensor.

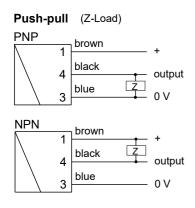
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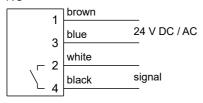
EFK2

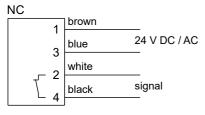
Wiring



Relay contact







The switching outputs are self-configuring, depending on whether they are connected as PNP or NPN switches.

Handling and operation

Installation

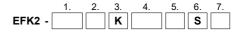
Installation must be such that the flow impinges on the marking (X) on the sensor. For sensors with screw-in threads, PTFE tape or sealing paste can be used for the seal. The installation location should be selected so that reproducible flow conditions are achieved (sufficient run-in length, wherever possible no valves, kinks, bends, etc directly ahead of the sensor. A sieve just upstream of the sensor may have a beneficial effect on reproducibility.

Operation

The flow is raised to the limit value, and the switching point is determined by turning the potentiometer to the point where the LED just switches from red to green (teaching).

LED red: Flow rate < Limit value LED green: Flow rate > Limit value

Ordering code



O=Option

1.	Connection	ion size						
	800	connection G ¹ / ₄ A						
	015	connection G ¹ / ₂ A						
	013	system fastener Ø13.2						
	012	push-in sensor Ø12						
2.	Process cor	nection						
	Н	male thread			•	•		
	Т	for insertion into the system T-piece			•			
	V	push-in sensor with variable insertion depth						
3.	Connection	n material						
	K	stainless steel 1.4571				•	•	
4.	Sensor							
	028		28.0 mm	П			•	
	029	sensor length	29.6 mm			•		
	045	1	45.0 mm			•		
	031	sensor for T-piece	G ³ / ₈ G ¹ / ₂		•			
	037		G ³ / ₄ G 2		•			
	050		50 mm	•				
	070		70 mm	•				
	100		100 mm	•				
	150		150 mm	•				
	200		200 mm	•				
5.	Switching output							
	0	relay contact NO (normally open / open when there is no flow)						
	С	relay contact NC (normally closed / closed when there is no flow)						
	Т	push-pull output					_	
6.	Electrical co						_	
	S	for round plug connector M12x1, 4-pole					_	
7.	Optional	1 1						
	+ -	model with goosene	eck					

Accessories

- Cable/round plug connector (KB...) see additional information "Accessories"
- made-up cable
- T-pieces for system connection Ø13.2
- Weld-on adapter for insertion sensor Ø12
- Compression fitting for insertion sensor Ø12 Flange for insertion sensor Ø12