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Product Information

CHM-HONSBERG

EFK2

Calorimetric 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

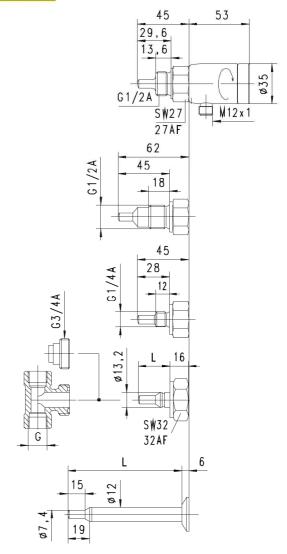
The EFK2 flow switch controls the flow speed of fluid media. Its compact form combines the built-in sensor, a two-colour LED status display, and a switching point which can be set using a potentiometer; it has push-pull or relay output. A flexible gooseneck can be installed between the sensor and the 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
	oil available on request
Measurement	±10 % of full scale value
accuracy	
Dynamics	13 seconds in water
Pressure	PN 100 bar optionally PN 200 bar
resistance	
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
A .U 4 4	(red < limit value, green > limit value)
Adjustment	as input
potentiometer	Constant MO 4 4
Electrical connection	for round plug connector M12x1, 4-pole
Resistant to short circuits	yes
circuits	

Reversal polarity protected	yes
Ingress protection	IP 65
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.

... professional Instruments "MADE IN GERMANY"

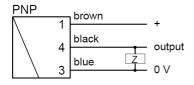


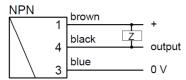
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Product Information

Wiring

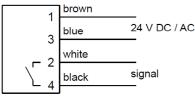
Push-pull (Z-Load)

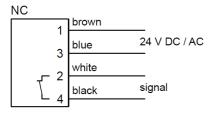




Relay contact

NO





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

	1.	2.	3.	4.	5.	6.	7.
EFK2 -			K			S	

O=Option

1.	Connection size								
	008 connection G ¹ / ₄ A								
	015	015 connection G ¹ / ₂ A 013 system fastener Ø13.2					1		
	013								
	012 push-in sensor Ø12								
2.	Process connection								
	Н	male thread							
	Т	for insertion into the system T-piece push-in sensor with variable insertion depth			•				
	V								
3.	Connection	Connection material							
	K	stainless steel 1.4571				•			
4.	Sensor								
	028		28.0 mm						
	029	sensor length	29.6 mm			•			
	045 🔾		45.0 mm			•			
	031		G ³ / ₈ G ¹ / ₂		•				
	037	sensor for T-piece	G ³ / ₄ G 2		•				
	050		50 mm	•					
	070		70 mm	•					
	100	insertion sensor	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	-							
6.	Electrical connection								
	S	for round plug connector M12x1, 4-pole							
7.	Optional								
	H O model with gooseneck								

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