Flow switch for liquid media flow-captor 412x.42M/.43M

The flow-captor 412x.42/.43M is ideally suited for use in automation processes or other industrial applications where liquid media must be controlled. The sensor operates according to the calorimetric measuring principle, fully electronic and without any mechanically moving parts. The flow-captor detects the flow velocity of the medium and converts it into an electrical signal.

- precise switching flow monitor with optocoupler • output
- high switching accuracy even with slower flows •
- separate adjustment of set-point and range ٠
- display of flow and the adjusted switching point • via LED chain
- LED for output status ٠
- robust stainless steel design (special potting)
- ISO 9001:2015

Technical data



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Туре	4	4120.42M/.43M	4121.42M/.43M
Medium		water-based	oil-based
Sensor data			
Measuring range		/s to 0 - 300 cm/s, pusly adjustable ¹⁾	0 - 30 cm/s to 0 - 300 cm/s, continuously adjustable ²⁾
Set-point range	approx. 15 % - 90 % of measuring range setting		
Medium temperature	- 20 °C to + 80 °C		
Ambient temperature	- 20 °C to + 70 °C		
Pressure		max. 100 bar	(1000 Kpa)
Response time	2 sec 10 sec., ac	cording to range setting	2 sec15 sec., according to range setti
Linearity deviation	< 5 % ^{1) 2)}		
Repeatability	< 2 %		
Hysteresis	approx. 10 %		
Temperature drift	< 3 % / K		
Mechanical data			
Protection class	IP67		
Material housing	stainless steel AISI 303		
Material of sensor probe	stainless steel AISI 303 (other material on request)		
Thread	G 1⁄2" BSP alt. 1⁄2" - 14 NPT		
Housing dimensions ODxH	see drawing next page		
Electrical connection	4-pin M12 plug		
Connection cable (optional)	2 m oilflex cable type 4941		
Electrical data			
Operating voltage	18 - 30 VDC		
Switching current	<60 VDC - 300 mA - 25 °C / <25 VAC - 300 mA - 25 °C / <220 - 70 °C		
Initial operation	approx. 10 sec. after connection of power		
Optocoupler output		412x.42M	412x.43M
Switching condition with flow < switching point		energized, switched	currentless, not switched
LED		off	off
Switching condition with flow > switching point		currentless, not switche	ed energized, switched
LED		green	green
1)			

1) data relate to water 2) calibrated with insulating oil type "Shell Diala"

weber

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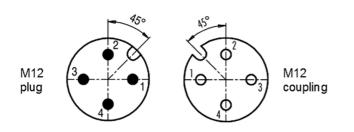
Technical data subject to alteration! Rev. AJ 23.04.19





flow-captor 412x.42M/.43M

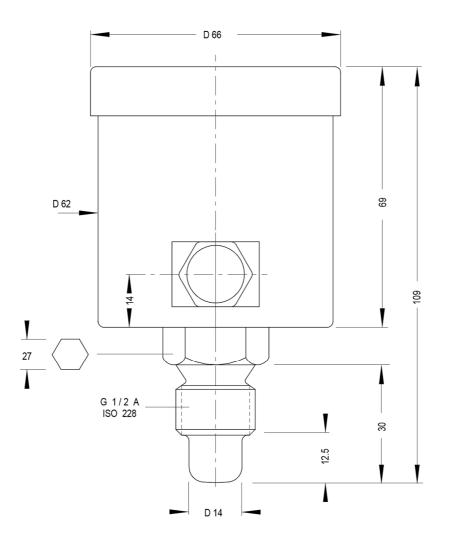
Face view of pins and male



1 brown output 4 black O pos max. 60 VDC 2 white 7 -K. O neg 18 - 30 VDC 3 blue

Connection diagram

Dimensions



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