

# flow switch for liquid media with analog temperature output



## flow-captor 422x.40M/.41M S141

The **flow-captor** type 412x.40/.41M **S141** is a of compact, precise flow switch with analog display in a rugged stainless steel housing. They operate based on the calorimetric principle. The flow-captor allows to set an exact flow set-point and will display simultaneously the flow rate up to the lowest flow conditions.

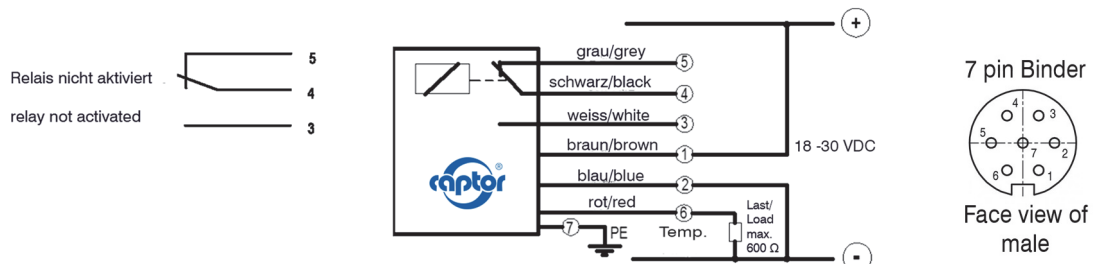
- Precise switching flow monitor with **relay output** for water or oil based media **up to 100 bar**
- version with **BINDER coupling (S141)**
- High accuracy also under low flow conditions
- Separate adjustment for „range“ and „set-point“
- Analog display of actual flow rate and display of adjusted set-point value
- Analog temperature output
- **ISO 9001:2015**



Technical data		
Typ	4220.40M/.41M S141	4221.40M/.41M S141
Medium	water-based	oil-based
Sensor data		
Measuring range	0 - 20 cm/s to 0 - 300 cm/s, cont. adjust <sup>1)</sup>	0 - 30 cm/s to 0 - 300 cm/s, cont. adjust <sup>2)</sup>
Set-point range	ca. 15 % - 90 % of measuring range setting	
Medium temperature	-20 °C bis +80 °C	
Ambient temperature	-20 °C bis +70 °C	
Pressure	max. 100 bar (1000 Kpa)	
Response time	2 - 10 sec., according to range setting	2 -15 sec., according to range setting
Linearity deviation	< 5 % <sup>1)</sup>	< 5 % <sup>2)</sup>
Repeatability	< 2 %	
Hysteresis	ca. 10 %	
Mechanical data		
Protection class	IP 67	
Material housing	stainless steel WN 1.4305 / AISI 303 (M)	
Material of sensor probe	stainl. steel WN 1.4305 / AISI 303 alt. WN 1.4571 / AISI 313Ti (A ), other materials on request	
Thread	G ½ " BSP, alt. ½ " 14 - NPT	
Electrical connection	Binder plug, 7-pin (order cable 4925 separately)	
Electrical data		
Operating voltage	18 - 30 VDC	
Switching current / Contact load	≤ 5 A, 120 VAC / 5A, 150W at VDC	
Electrical output, flow	Relay with potential contact	
Initial operation	approx 10 sec. after connection of power	
Flow < set-point	<b>.40</b>	<b>.41</b>
- LED, green	off	off
- Output relay	activated	not activated
Temperature output	-10 °C to +80 °C ± 4 - 20 mA	

<sup>1)</sup> data relate to water

<sup>2)</sup> calibrated with insulation oil type "Shell Diala S4 ZX-I"



**weber**

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