

# Metering flow switch for liquid media



## Inline flow-captor 4321.1xM 10.5 - 36 VDC

The Inline **flow-captor** type 432x.1xM 10.5.- 36 VDC is a unique, compact, metering flow switch with adjustable set-point and analog display for industrial applications in stainless steel housing. The functionality is based on the calorimetric principle. The inline flow-captor allows to set an exact flow set-point and to display simultaneously the flow rate up to the lowest flow conditions.

- accurate switching flow monitor for water or oil-based solutions
- 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
- LED for output status
- **ISO 9001 : 2015**

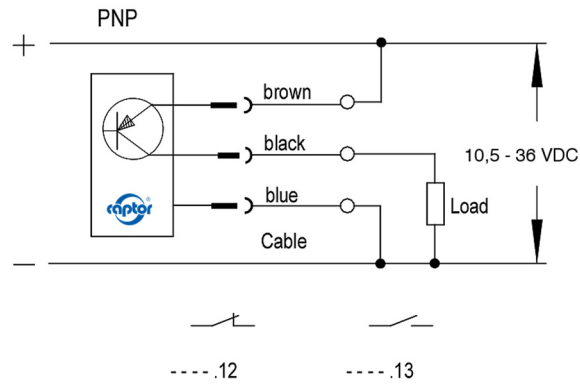


### Technical Data

Type	<b>flow-captor 4321.1xM 10,5 - 36 VDC</b>				
Medium	oil-based solutions				
<b>Sensor Data</b>					
Measuring range	0 - 30 cm/s to 0 - 300 cm/s, cont. adjustable *1				
Flow volume at 300 cm/s	8 x 1 mm 5,1 l/min	12 x 1 mm 14,1 l/min	18 x 1,5 mm 31,8 l/min	22 x 1,5 mm 51 l/min	28 x 1,5 mm 88,4 l/min
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. 30 bar (3000 kPa)				
Response time	2 s to 10 s (according to range setting)				
Linearity deviation	< 5% *1				
Repeatability	< 2%				
Hysteresis	ca. 10%				
Temperature drift	< 0,3% K				
<b>Mechanical Data</b>					
Protection rate	IP67				
Housing material	stainless steel 316 Ti (V4A)				
Sensor material	stainless steel 316Ti ( <b>B</b> : Titanium; <b>C</b> : Hastelloy ® C4)				
Pipe sizes OD x wall thickness	8 x 1 mm	12 x 1 mm	18 x 1,5 mm	22 x 1,5 mm	28 x 1,5 mm
Connection	Plug M12x1, 4-pin (order cable 4940 separately)				
Dimensions of housing in mm	D 60 x L 200				
<b>Electrical Data</b>					
Operating voltage	10,5 to 36 VDC, incl. residual ripple				
Current consumption	max. 150 mA (pulsed)				
Power consumption	approx. 1 W				
Switching current	≤ 400 mA				
Circuit protection	reverse polarity / short circuit / overload				
Voltage drop	< 2 V at max. load				
State of readiness	approx. 10 s after connection of power				
Electrical output Without flow:	4321.12 PNP current-carrying (opener / n. c.) 4321.13 PNP currentless (closer / n. o.)				

\*1 calibrated with insulation oil type "Shell Diala S2 ZU-I Dried"

Connection diagram:



Gehäuseabmessungen  
Dimensions

