## *Metering flow switch for water-based media*

# Inline flow-captor 4320.1xM 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 functionally is based on the calorimetric principle. The inline flow-captor allows to set an exact flow set-point while simultaneously displaying the flow velocity down to the smallest values.

- accurate switching flow monitor for water or oil-based solutions
- rugged industrial version
- 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 | **flow-captor 4320.1xM 10.5 - 36 VDC** | | | | | |
| Medium | water-based media | | | | | |
| **Sensor Data** | | | | | | |
| Measuring range | 0 - 20 cm/s to 0 - 300 cm/s, cont. adjustable [*1] | | | | | |
| Flow volume[*1] at 300 cm/s related to tube inner diameter | 8 x 1 mm<br>5,1 l/min | 12 x 1 mm<br>14,1 l/min | 18 x 1,5 mm<br>31,8 l/min | 22 x 1,5 mm<br>51 l/min | 28 x 1,5 mm<br>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 | | | | | |
| **Mechanical Data** | | | | | | |
| Protection rate | IP67 | | | | | |
| Housing material | stainless steel 316 Ti (V4A) | | | | | |
| Sensor material | stainless steel 316Ti (**B**: Titanium; **C**: Hastelloy ® C4) | | | | | |
| Pipe sizes<br>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 | | | | | |
| Dimensions of housing in mm | D 60 x L 200 | | | | | |
| **Electrical Data** | | | | | | |
| 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<br>Without flow: | 4320.12 PNP current-carrying (opener / n. c.)<br>4320.13 PNP currentless (closer / n. o.) | | | | | |

[1] all data applies to water

weber
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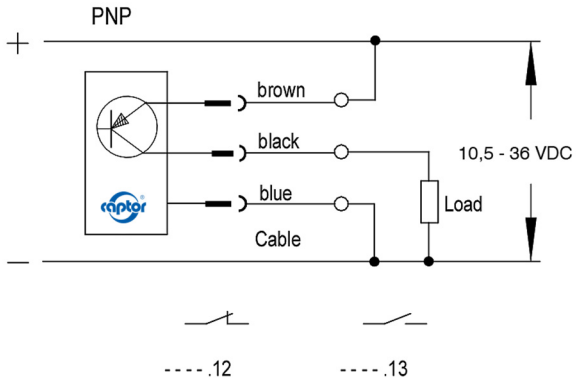
### Connection diagram




### Gehäuseabmessungen
### Dimensions