Flow meter for liquid media

flow-captor 4311.30M/xx

The flow-captor type 4311.30M/xx is a non-reactive flow meter, ideal for all measurement and control tasks in automation processes or other industrial applications. The 4311.30M/xx is an inline model specially designed for installation in smaller pipe diameters. The sensor works according to the calorimetric measuring principle. The detection takes place in the inline tube, whereby the sensor measures the "heat flow" depending on the flow velocity of the medium and converts it into a linearized, flow-proportional, electrical signal.

- robust stainless steel construction (special potting)
- for smaller pipes from OD8 up to OD28
- analogue current output 4 – 20 mA
- separate potentiometers for zero point and measuring range
- fully electronic functionality without mechanically moving parts
- LED display for output status
- **ISO 9001:2015**

Technical data	
Type	**4311.30M/xx**
Medium	water-based (other media on request)
Sensor data *[1]	
Measuring range	0 - 20 cm/s to 0 - 100 cm/s, continuously adjustable
Medium temperature	-10 °C to +80 °C
Ambient temperature	-10 °C to +60 °C
Response time	2 - 10 sec. according to measuring conditions
Linearity deviation	< 5 % (best fitting slope)
Repeatability	< 2 %
Temperature-drift	< 0.3 % per Kelvin
Mechanical data	
Protection class	IP67
Operation pressure	max. 30 bar
Material housing	stainless steel AISI 316
Material of sensor tube	stainless steel AISI 316 (other material on request)
Torque of tube against housing	≤ 10 Nm ≤ 80 °C
Housing and tube dimensions	see second page
Electrical connection	2 m oilflex cable
Electrical data	
Operating voltage	24 VDC ±10 %
Current consumption	max. 100 mA
Output current	4 - 20 mA
Resistive load	0 - 600 Ohm
LED indication	A green LED indicates operation within (LED on) and outside (LED off) of the set measuring range.

*1) related to water

weber
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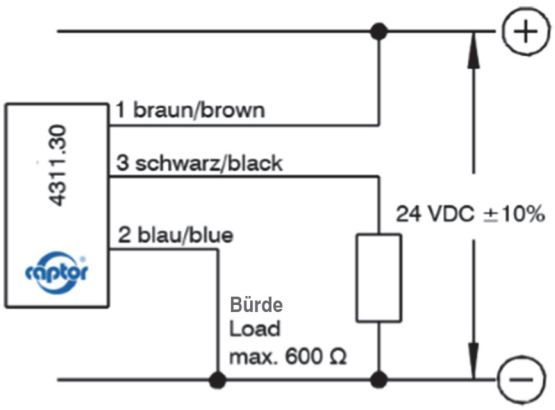
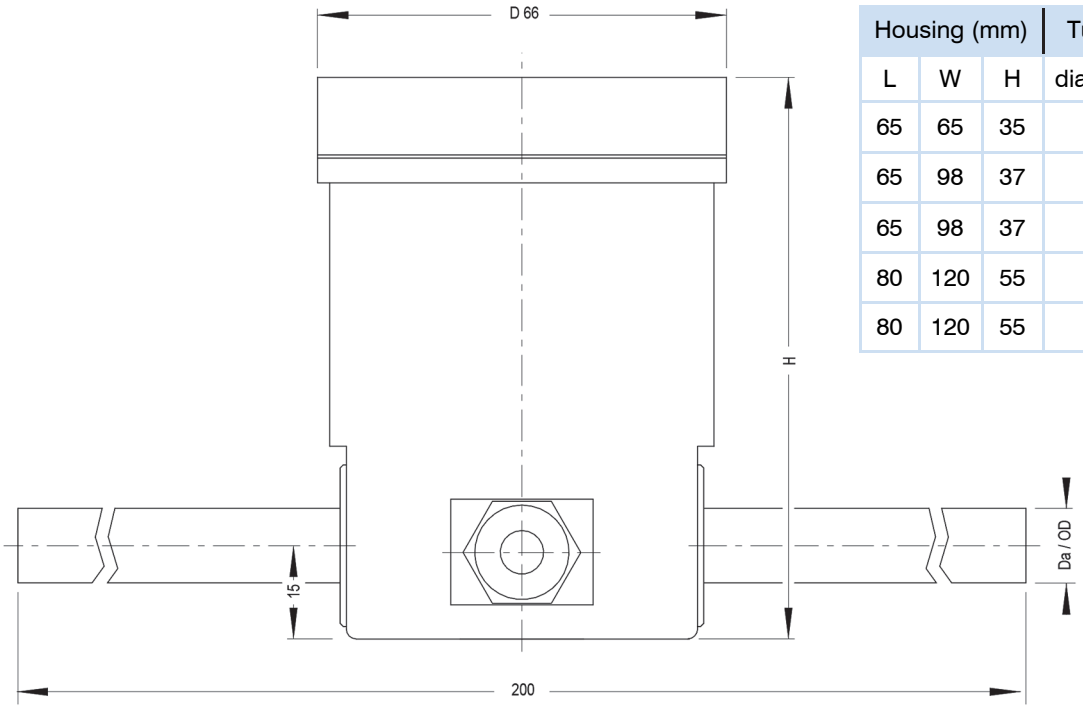
connection diagram:



Dimensions:



Housing (mm)			Tube dimension (mm)	
L	W	H	diameter	wall thickness
65	65	35	8	1
65	98	37	12	1
65	98	37	18	1.5
80	120	55	22	1.5
80	120	55	28	1.5

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