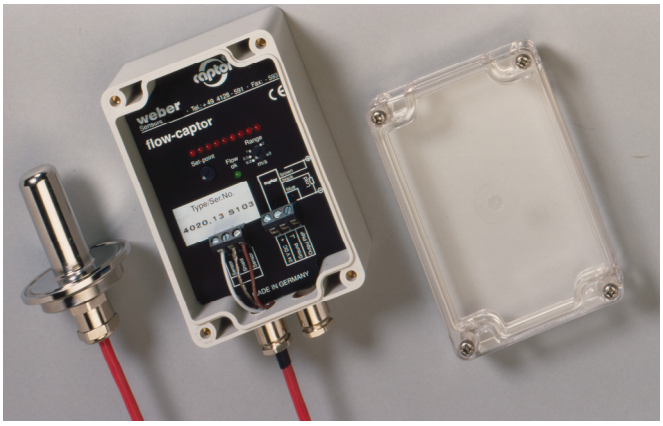
Electronic flow-switch

flow-captor for TRI-CLAMP® system
4120 S103 + 4020.1x S103

The **flow-captor** type 4120 S103 + 4020.1x S103 is a precise metering flow switch with analog display for the food industry. It operates based on the calorimetric principle. The flow-captor allows to set an exact flow set-point and will measure simultaneously the actual flow rate.

- precise switching sensor for water based solutions up to 100 bar
- for media temperature up to 135° C
- consisting of sensor with encapsulated silicone cable and electronic unity
- high accuracy even under low flow conditions
- separate adjustment for “range“ and „set-point“
- analog display of actual flow rate and display of the adjusted set-point
- LED display of output status
- designed for TRI-CLAMP® system
- **ISO 9001 : 2015**



Technical Data	
Type	**4120 S103 + 4020.1x S103**
Medium	water based solutions
Sensor Data	
Measuring range	0-20 cm/s bis 0-300 cm/s, continously adjustable [1]
Set-point range	ca. 15%-90 % of measuring range setting
Medium temperature	0° C bis + 135° C
Pressure	up to 100 bar
Response time	2 s - 10 s, according to range setting
Linearity diviation	< 5% [1]
Repeatability	< 2%
Hysteresis	approx. 10 %
Temperature drift	<0,3%/K
Mechanical Data	
Protection class	IP 65
Housing	Macrolon®
Sensor head	Stainless Steel WN 1.4571 (316Ti) , (Titanium, Hastelloy C4 ® on request)
Cable connection	encapsulated silicone cable (2m)
Elektrical Data (Electronic unit)	
Operating voltage	18 to 30 VDC, incl. residual ripple
Switching current	≤ 400 mA
Ambient temperature	-20 °C to +70 °C
Initial operation	approx. 10 s after connection of power
Elektrical output	PNP n. c. [2] : 4020.12 PNP n. o. [3] : 4020.13

[1] data apply to water [2] switch open with flow [3] switch closed with flow

weber
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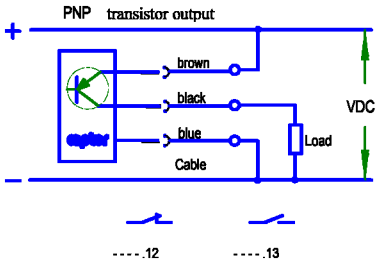
Connection diagram:



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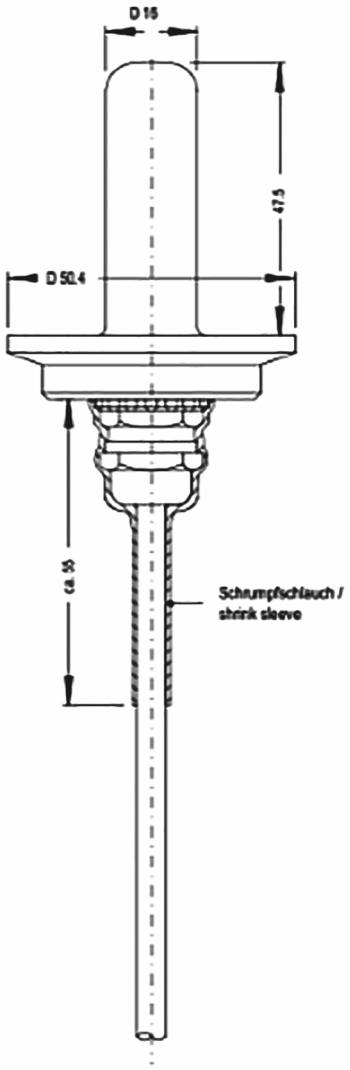

Gehäuse und Flansch :
Edelstahl WN 1.4571

Material of housing and flange:
stainless steel WN 1.4571

Silikon - Kabel, 2 adrig, geschirmt
L = 2 m

Material and length of cable:
2 wire shielded silicone
L = 2 m

Mediumtemperatur max. 135 °C
medium - temp max 135 °C

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