

## flow-captor 4120.13 S114/xx S110/xx

The **flow-captor** type 4120.13 S114 is a family of compact, precise metering flow switches with analog display for food industry. They operate based on the calorimetric principle. The flow-captor allows to set an exact flow set-point and will measure simultaneously the actual flow rate.

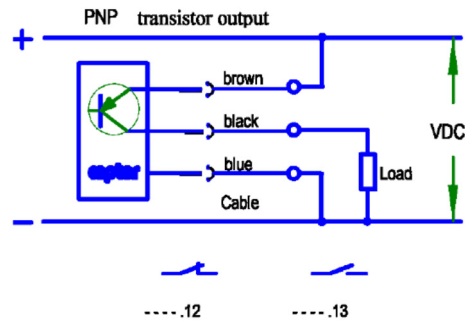
- Precise switching flow monitor for water based solutions up to **100 bar**
- High accuracy even under low flow conditions
- Separate adjustment for "range" and „set-point“
- Analog display of actual flow rate and display of adjusted set-point value
- LED display for output status
- Provided for TRI-CLAMP® -System
- **ISO 9001 : 2015**



Technical Data	
Type	4120.13 S114/xx S110/xx
Medium	water based solutions
Sensor Data	
Measuring range	0-20 cm/s bis 0-300 cm/s, cont. adjust. <sup>1)</sup>
Medium temperature	-30 °C to +130 °C
Set-point range	approx. 15%-90% of range setting
Pressure	up to 100 bar
Response time	2 s - 10 s, according to range setting
Linearity deviation	< 5% <sup>1)</sup>
Repeatability	< 2%
Hysteresis	approx. 10 %
Temperature drift	<0,3%/K
Mechanical Data	
Protection class	IP 65
Housing	PBTP, glass fibre reinforced ( Ultradur® )
Sensor head	Stainless Steel WN 1.4571 ( 316Ti ) , (Titanium, Hastelloy C4® on request )
Pipe connection	closing D50,5 mm / 64.0 mm
Cable connection	Integrated plug assembly with PG9 fitting, 2 m oilflex cable 3 x 0,5 mm <sup>2</sup>
Electrical Data ( Electronic unit )	
Operating voltage	18 to 30 V DC, incl. residual ripple
Current consumption	max. 150 mA (pulsed)
Power consumption	approx. 1 W
Circuit protection	reverse polarity, short circuit and overload
Voltage drop	< 2,5 V at max. load
Switching current	≤ 400 mA
Ambient temperature	-20 °C to +70 °C
Initial operation	approx. 10 s after connection of power
Electrical output without flow:	4120.12 PNP n.c. (opener) current-carrying 4120.13 PNP n.o. (closer) currentless

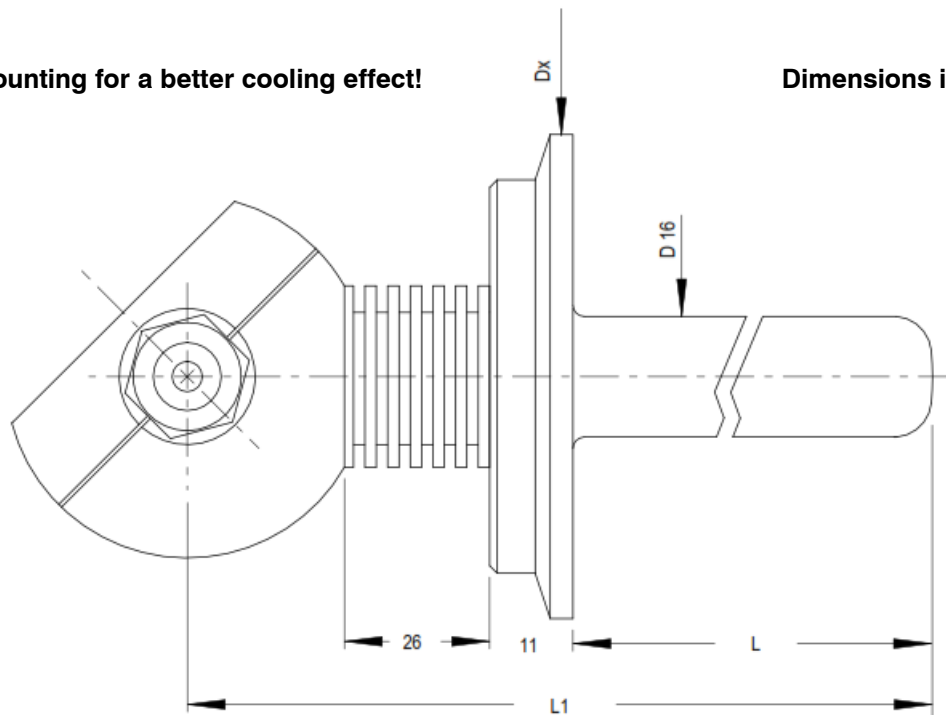
<sup>1)</sup> relate to water

Connection diagram



Horizontal mounting for a better cooling effect!

Dimensions in mm



Following relation between ambient temperature and medium temperature shall not be exceeded.

	S114/xx	S110/xx	
Stock - Nr.	Dx	L	L1
07031252	50,5	47,5	110,5
07031255	50,5	67,0	130,0
07031254	64,0	47,5	110,5

max. ambient temp.	max. medium temp.
30° C	130° C
40° C	120° C
50° C	110° C
60° C	100° C
70° C	90° C
min. ambient temp.	min. medium temp.
- 20° C	- 20° C
- 10° C	- 30° C