TECHNICAL INFORMATION

flow-captor CooLGUARD Type 4100

The safe sensing solution for industrial cooling systems.

The flow-captor **CooLGUARD** utilizes the weber pioneered calorimetric principle and the All-In-One monitoring of flow and temperature of the coolant

CooLGUARD is especially designed, for all types of cooling systems, as a reliable alternative to failure prone mechanical flow switches.

- Compact electronic unit with no moving parts
- No adjustment or calibration needed
- Maintenance free
- Fail safe normally open switch
- Easy to Install

Technical Data

Type	4100
Medium	Water based liquid

Sensor Data

Low Flow Set Point	0.3 m/s (.9 fps) (water related)
Hi Temp Set Point	50°C (122°F) or 70°C (158°F), other settings possible on OEM demand
Medium temperature	-20°C (-4°F) to + 80°C (176°F)
Response time	5 – 10 seconds
Repeatability	< 0.5 %
Hysteresis	approx. 20% of setpoint value
Pressure	10 bar (150 PSI)

Mechanical Data

Protection class	IP 67 (NEMA6)
Housing Material	Stainless Steel 1.4301 (303)
Thread	G ½ A (BSP) or ½ " –14 NPT (NPT)
Connection	M12 male socket, 4 pin + 2m connection cable with M12 connector

Electrical Data

Operating voltage	18 to 30 V DC, incl. residual ripple
Switching current	≤ 200 mA
Power Consumption	4 W max.
Initial Operation	after 15 seconds
Electrical Output	PNP n.o. (switch closed with flow)

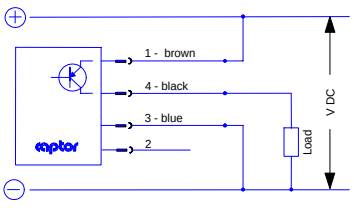
Part Number Key:

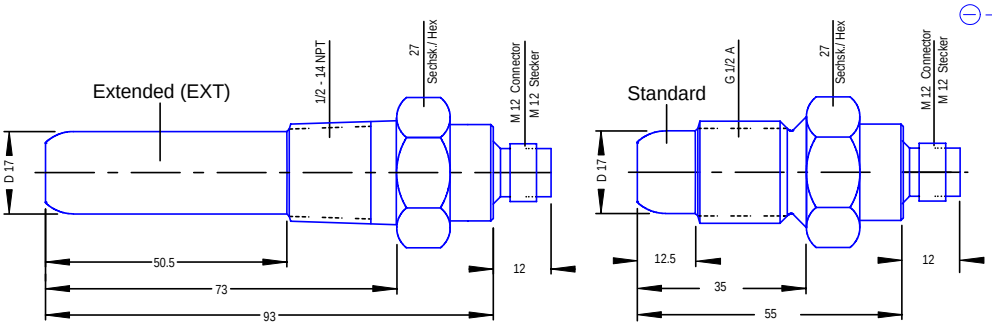
4100-X-Y-Z A

X= Temp Setpoint (°C), code: **50nc** or **70nc**
Y= Flow Set Point (m/s), code: **.3no**
Z= Sensor Head Length, code: none or **EXT**
A= Thread code: **BSP** or **NPT**

Example: 4100-70nc-.3no-EXT BSP

Connection diagram





weber

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REV: AJ / 30.01.06
sgd.: Wip. / Wil

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