

# 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	.4 m/s (1.2 fps) (water related) typical
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	<30 seconds
Repeatability	< .05 m/s
Hysteresis	<30% 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
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:

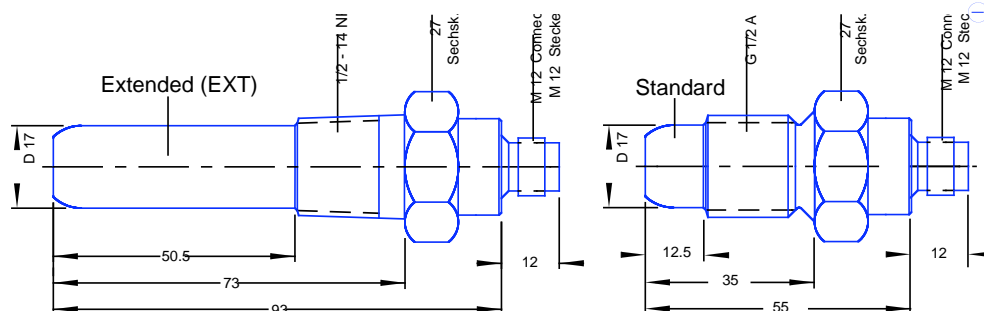
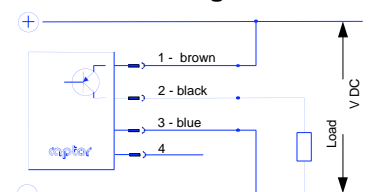
#### 4100-X-Y-Z A

**X**= Temp Setpoint (°C),  
**Y**= Flow Set Point (m/s),  
**Z**= Sensor Head Length,  
**A**= Thread

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

code: **50nc** or **70nc**  
 code: **.3no**  
 code: none or **EXT**  
 code: **BSP** or **NPT**

### Connection diagram



REV: AH / 14.01.05  
 sgd.: LF/AC

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