

Coolguard Type 4100 - Flow Switch



Benefits and Features

- Low Cost Flow Switch with no moving parts
- Simple to Install in a pipe T
- Monitors both Flow and Temperature

Application

- Cooling circuits
- Chillers
- Irrigation Systems
- Heat Exchangers
- Furnaces
- Water Treatment

General Description

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.

Specifications

Technical Data

Type: 4100

Medium: Water based liquid

Sensor Data

Low Flow Set Point : 0.4 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)

Ordering Information

Part Number Key:

4100-X-Y-Z A

X= Temp Setpoint (°C),

Y= Flow Set Point (m/s),

Z= Sensor Head Length,

A= Thread code:

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

code: 50nc or 70nc

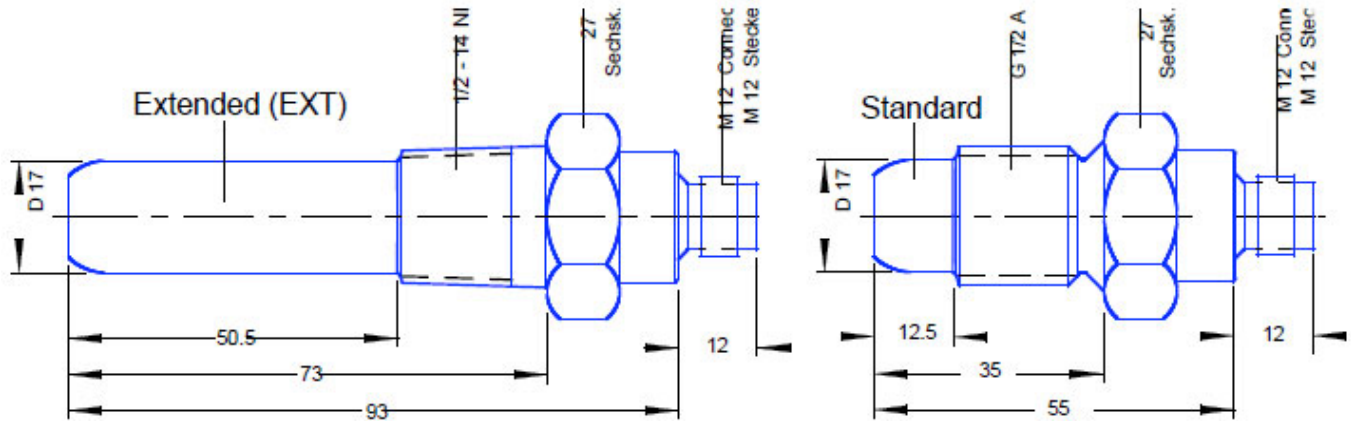
code: .3no

code: none or EXT

code: BSP or NPT

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↔ Dimensions



Connection diagram

