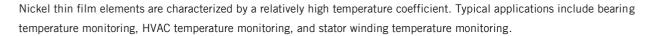


# Nickel Thin Film Temperature Sensor

## Temperature range -60 °C to +250 °C



Nominal Resistance Ro	Tolerance	Order number
1000 Ohms @ 70 °F	As per DIN 43760	5117710

**Specification** GFS

Temperature Range -60 °C to +250 °C

Temperature Coefficient 6374 ppm/K

Lead wire material Nickel

Protective coating high-temperature epoxy

Self-heating 0,3K/mW in air

**Response time** Water (v = 0.2m/sec.)  $t_{0.9} = 0.3$  sec.

Air (v = 1 m/sec.)  $t_{0,9} = 9 \text{ sec.}$ 

Operating Current, Maximum 5 mA



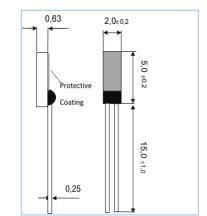
 $R(9) = R_0 x (1 + 5,6474x10^{-3}x9 + 6,695x10^{-6}x9^2 + 5,688x10^{-9}x9^3)$ 

#### Maximum permissible tolerance as a function of temperature:

 $9<0^{\circ}\text{C}$ :  $F = \pm (0.4 + 0.028 \times 9)^{\circ}\text{C}$  $9>0^{\circ}\text{C}$ :  $F = \pm (0.4 + 0.007 \times 9)^{\circ}\text{C}$ 

### California Proposition 65

WARNING: This product can expose you to chemicals including lead oxide, which is known to the State of California to cause cancer and birth defects or other reproductive harm, and including cobalt oxide, nickel and cobalt, which are known to the State of California to cause cancer. For more information go to <a href="https://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>.

















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The information provided in this data sheet regarding measurement values (including, but not limited to, response time, long-term stability, vibration and shock resistance, insulation resistance and self-heating) are average values that have been obtained under laboratory conditions in tests of large numbers of the product. Product results or measurements achieved by customer or any other person in any production, test, or other environment may vary depending on the specific conditions of use.

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