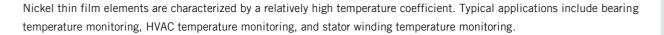


Nickel Thin Film Temperature Sensor

Temperature range -60 °C to +200 °C



Nominal Resistance Ro	Tolerance	Order number
500 Ohms @ 0 °C	As per DIN 43760	100 488-1

Specification DIN 43760

Temperature Range -60 °C to +200 °C

Temperature Coefficient 6180 ppm/K

Lead wire material Nickel

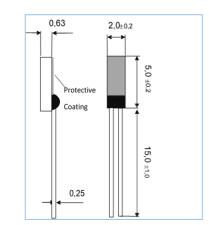
Protective coating high-temperature epoxy

Self-heating 0,3K/mW in air

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

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

Operating Current, Maximum 5 mA















Polynomial of a nickel resistor in accordance with DIN 43760:

 $R(9) = R_0 \ x \ (1 + 5,481 x 10^{-3} x 9 \ + 6,650 x 10^{-6} x 9^2 + 2,805 x 10^{-11} x 9^4 + 2,000 x 10^{-17} x 9^6)$

Maximum permissible tolerance as a function of temperature (DIN 43760):

9<0°C: $F = (0,4 + 0,028 \times 9)$ °C 9>0°C: $F = (0,4 + 0,007 \times 9)$ °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 www.pbswarnings.ca.gov.



The information provided in this data sheet describes certain technical characteristics of the product, but shall not be qualified or construed as quality guarantees whatsoever. Furthermore, the information provided in this data sheet does not constitute a warranty, implied or express, whatsoever, including but not limited to warranties of merchantability, fitness for a particular purpose, or use.

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.

The customer is solely responsible to determine whether the product is suited for customer's intended use; in this respect Heraeus cannot assume any liability. The sale of any products of Heraeus is exclusively subject to the Terms and Conditions of Sale of Heraeus in their current version at the time of purchase, which is available under www.heraeus.com/gtc or may be furnished upon request. This data sheet is subject to changes without prior notice.

Heraeus Nexensos USA, a division of Heraeus Epurio LLC, 770 Township Line Road, Suite 300, Yardley, Pennsylvania, USA 19067 Web: www.heraeus-nexensos.com

Status: 07/2019

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Industrial Temperature Sensors category:

Click to view products by Heraeus Sensor manufacturer:

Other Similar products are found below:

590-32AC34-103-WRI 590-59CN02-103 G9864ST22F0 HEL-705-U-0-12-C1 HEL-736-U-2-36 HEL-717-U-0-24-00 519-39AW09-245 519-39CH01-295 535-32AB36-202 535-34AE08-303 512-32AQ01-503 521-33AG04-303 521-53BR01-503 E52P6DY4M 535-34AE09-222 590-32AC34-103 590-32AD05-103 HEL-705-U-0-36-00 HEL-705-U-1-12-C2 E52-CA6D-N 4M E52-P6DY 2M E52-P20C-N D=8 E52-THE5A 100-200 2M HRTS-5760-B-T-0-18 6655-71990001 LTPCTGA20MBSIBX01 LTPCTAA20MDSIEX01 BB-HS-104T2505402 NCP81255MNTXG HEL-707-T-1-24-00 HEL-716-U-0-24-00 USW2247 R-11614-1 RP103ST22P2 R-10331-3F6 E52-P20AY-D32 4M B57045K0222K000 B57045K0154K000 PPG102A6 R-7119 R-8949-34 BB-WTJ-10-36-TT 20006233-00 USW2889 E52-P35C-ND3.2 NB-PTCO-142 B57045K0682K000 R-10224-16 R-1630 R-8204