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Vishay Introduces Screw-Threaded NTC Thermistor Sensor Assembly With Insulated Extension Cable

Vishay's new NTC thermistor sensor assembly, part number NTCASCWE3C70001, features a threaded screw housing and insulated hook-up extension cable for easy mounting in offboard temperature measurement, sensing, and control applications for consumer or industrial appliances. This sensor is ideal for accurately



measuring surface temperatures, as it provides excellent thermal coupling and good electrical insulation at the point of measurement. The construction consists of an NTC chip soldered to the cable conductors and potted in the head of the brass screw, which has a #6 thread tap size with 32 threads per inch (6-32 UNC ISO68-2 ISO263). The sensing signal is routed back to the control system by a multi-stranded copper AWG28, UL 3656, XLPE insulated hook-up cable with a rating of 125 °C and 300 V and a length of 200 mm. An R_{25} of 10 K Ω , $\pm 2\%$, and $B_{25/85}$ of 3984 K, $\pm 0.5\%$, enable accurate measurement over the entire operational temperature range of -40 °C to +125 °C.

Key Advantages

- Rugged threaded construction for easy mounting
- Good thermal contact (low temperature gradient)
- Extended temperature range to +125 °C

Useful Links

- Product Page <https://www.vishay.com/ppg?29214>
- 3D model <https://www.vishay.com/doc?29215>
- R-T table program <https://www.vishay.com/thermistors/ntc-rt-calculator/>
- Stock Check <https://www.vishay.com/search?type=inv&query=NTCASCWE3C70001>

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