

## Technical Information

**Model TES.02.12**AERONAUTIC Sector**Brakes temperature sensor**

---

|                               |  |
|-------------------------------|--|
| <b>Description</b>            | Temperature sensor thermocouple "K" type for brakes.<br>Sheath AISI 304 diameter 1,5 mm, insulation mineral oxide, teflon PTF cable sheath.  |
| <b>Sensor Type</b>            | TC "K" type hot joint insulated  |
| <b>Sensor Number</b>          | Single   |
| <b>Precision</b>              | Class 1 (special) accordo to EN 60584  |
| <b>Working Temperature</b>    | -50 / +900 °C  |
| <b>Short Time Temperature</b> | +910 °C  |
| <b>Sensor Sheath</b>          | Material: AISI 304<br>Diameter: 1,5 mm<br>Lenght: 10 mm<br>Internal insulation: mineral oxide<br><br><b>* on request other lenght</b>  |
| <b>Process Connection</b>     | Special<br><br><b>* on request other dimensions</b>  |
| <b>Cable</b>                  | Diameter: 3,2 mm<br>Lenght: 0,23 mt<br><br><b>* on request other lenght</b><br><br>CONDUCTORS<br>number: 2<br>electrical section: 0,22 mm <sup>2</sup><br>type: strand<br>material: termocouple "K" type<br>insulation: teflon MFA<br><br>Insulation sheath: teflon MFA<br>External Armour: AISI 304<br><br>COLORING<br>standard: ANSI<br>conductors: red (+) / yellow (-)<br>sheath: yellow |
| <b>Electrical Connection</b>  | Bare wires out<br><br><b>* on request other connector type</b>   |

---

---

|                              |   |
|------------------------------|---|
| <b>Laser Marking</b>         | Thermo Engineering Logo<br>Thermo Engineering P/N<br>Customer P/N<br>dd/mm/yy di produzione<br><br><b><u>* on request other marking</u></b>     |
| <b>Test</b>                  | Visual<br>Dimensional<br>Room temperature insulation resistance<br>Electrical continuity<br><br><b><u>* on request other test available</u></b> |
| <b>IP Grade</b>              | IP65 in accordo a UNI EN 60529  |
| <b>Insulation Resistance</b> | According to IEC 1515 insulation resistance > 1GΩ @ 25 °C; between terminals and the sheath with a test voltage of 500 VDC.                     |
| <b>Response Time</b>         | t <sub>50</sub> : 4 sec<br>t <sub>90</sub> : 10 sec   |
| <b>Certifications</b>        | Conformity certificate<br>Conformity certificate RoHS 2002/95/CE  |

---