

MBB Bearing shoe thermocouple sensor with spring

Application

A range of high accuracy miniature embedded (also known as embedment) thermocouple sensors designed for surface temperature measurements in general industrial applications such as in bearing shoe applications to give a reliable indication of bearing wear and oil film breakdown through continuous monitoring of temperature. These tip sensitive thermocouples have an operating temperature range of -25°C to +250°C and can be supplied with a pressure tested oil seal barrier to prevent leakage. Standard assemblies are easy to install in drilled holes for general temperature sensing applications, whereas the spring loaded 'top hat' style assemblies are inserted into a milled hole with a retaining clip pushed down to compress the spring and retain the sensor against the surface being monitored.



Sensor

| | |
|-----------------------------------|---|
| Mounting | Bearing thermocouple with spring and retaining clip |
| Thermocouple type | K, T, J, N or E |
| For duplex | KK, TT, JJ, NN or EE |
| Accuracy | According to IEC 60584 |
| Operating range | -25°C up to +250°C |
| Material | Stainless steel |
| Diameter | 6.0 or 6.4mm |
| Simplex sensor body length | 6.0mm Standard, or contact us to specify |
| Duplex sensor body length | 12mm Standard, or contact us to specify |

Compression spring

| | |
|--------------------------|-----------------|
| Diameter | 6.0mm |
| Compressed length | Approx. 6.0mm |
| Material | Stainless steel |

Cable

| | |
|---|--|
| Twisted wires with external armour | PFA insulated twisted wires with stainless steel braiding (TA) |
| Cable with external armour | PFA cable jacket with external Stainless steel braiding (TTA) |
| Length | 1000mm standard, other lengths possible |
| Colourcode | IEC |

Options

| | |
|---------------------------------|--|
| Explosion proof versions | ATEX / IECEx versions available, please consult us |
| Oil seal part | Standard 60 x 4.75mm |
| Other dimensions | Please consult us |

Ordering code

*This datasheet is purely indicative, build-up of model code may vary from this datasheet.

| | | | | | |
|-------------------|-----|--|--|--|--|
| Model | MBB | | | | |
| Thermocouple type | | | | | |
| Cable TA or TTA | | | | | |
| Colourcode | | | | | |
| Cable length | | | | | |



thermo-electra
temperature sensor solutions

Thermo Electra B.V.
Weteringweg 10
2641KM Pijnacker
The Netherlands

Phone +31 (0)15 - 3621200
Fax +31 (0)15 - 3694082
Email sales@thermo.nl
<http://www.thermo-electra.com>

