

Our latest newsletter offers new product information and guidance on all aspects of temperature measurement.

Why use Mineral Insulated Thermocouples?



Mineral Insulated (MI) Thermocouples are an ideal product for tough applications and are one of our best selling sensors, as they have the following features:

- **Rapid response** - Ideal for environments where temperature changes quickly
- **Highly flexible** - Can be bent to fit any application, even in very long lengths
- **Low flammability** - Perfect for environments where flames are present
- **Wide temperature range** - Can be used in sub zero and high temperature
- **Long life** - Can withstand harsh environments for long periods of time
- **Resists oxidation** - Ideal for corrosive environments

MI Thermocouples are generally used more than MI RTDs due to the wide temperature range and rapid response...

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Our range of Mineral Insulated Sensors



Our standard range of Mineral Insulated Sensors are available in both Thermocouple and RTD options in a variety of sensor types and styles, with a wide range of terminations such as lead wires, plugs or industrial head assemblies to suit a wide variety of applications.

Whatever your needs, we will be able to provide a Mineral Insulated sensor for your application.

View the full range

The Sensors Tip #6 - Minimum bend radius of MI Sensors



Did you know? Mineral Insulated Thermocouples and RTDs can be bent in to many elaborate shapes. However, there is a minimum bend radius, which is 3 times the cable diameter.

The above image shows a 3mm diameter MI cable at its minimum bend. To calculate the minimum bend radius you simply multiply the diameter of the cable by 3, therefore the minimum inside radius of a bend for 3mm cable must be $3 \times 3 = 9\text{mm}$.

To calculate the circumference (18mm in fig 1) simply multiply the radius (9mm in fig 1) by 2. This is the minimum size of former you would have to use to form your MI cable in to shape.

Read more about MI Sensors

Thanks for being a loyal customer. We appreciate hearing from you.
Let us know if you ever have any questions.

Contact Us



Need Help? Call us on: +44 (0) 161 620 0410

You can also e-mail us at

sales@sterlingsensors.co.uk

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