

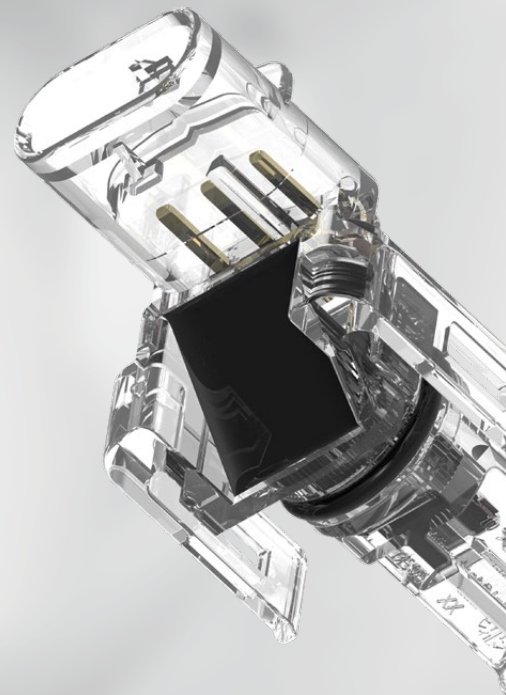


# **MICROTHERM**

Pure Performance:

Temperature protection

and sensors



SAFETY TECHNOLOGY  
FOR MORE THAN 50 YEARS

# Safety

# for your product



## Product protection & micro precision

As a family-managed business, Microtherm combines the creative spirit of its individual employees with the professionalism of a manufacturer. We own and operate international production sites, as well as a competent development division. Our IATF certification makes us a competent cooperation partner for all of our business partners - not just for the automotive industry.

Microtherm GmbH is a globally represented manufacturer of innovative and technically high-quality components for the temperature regulation and limitation in the control and sensor technology. Our components are used in industrial manufacturing, automotives, electronics, household technology and many other application areas.

### Temperature protection

Products for temperature protection applications are also an aspect of our more than 50 years of experience. Thereby, our products are distinguished by a high and precise switching performance. A long service life and narrow tolerances are guarantees for functional reliability.

### Sensors & customer-specific solutions

Understanding of customer-specific problems is one of our strengths. We gladly forge new paths by developing supplemental solutions for our customer in order to develop our standard products and accompany problem-solving from the product idea to series production.





# We make the use of power safer for people



## Microtherm-Gruppe

Our head office is located in Pforzheim-Würm. From there, we have been successfully active with our products for more than 50 years, with further production and sales locations worldwide. In addition to our headquarters in Pforzheim-Würm, the Microtherm Group also operates locations abroad.

### The Czech Republic

Sales and production location

### Brazil

Sales location

### China

Sales and production location

### India

Sales location

### Italy

Sales location and branch

### Canada

Sales and production location

## Tradition in numbers and facts

- 1965: Founding of Microtherm GmbH, Pforzheim
- Quality standard IATF 16949
- 200 Employees in the MIC group with sales of ca. 20 Mio. EUR
- represent in more than 30 countries
- Production facilities in Germany, the Czech Republic, Canada, & China

## Locations worldwide

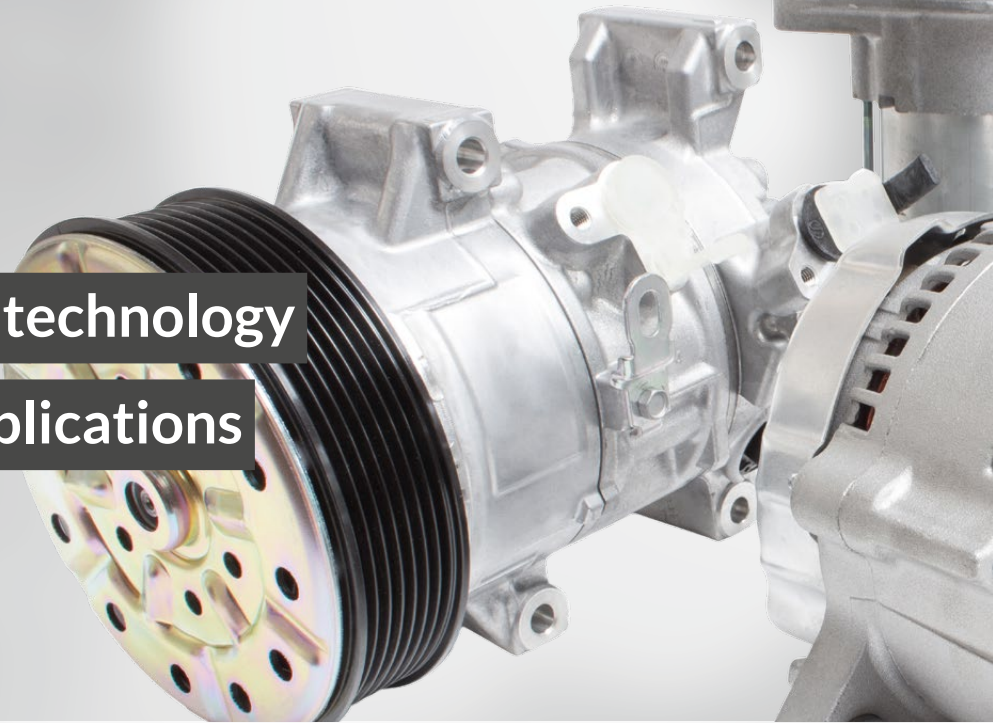
The Microtherm Group operates 4 production sites in Germany, the Czech Republic, China and Canada. Additionally, there are 3 own sales offices in Italy, India and Brazil, as well as various commercial agents in several countries.



**Unmatched**

**Safety and sensor technology**

**for a variety of applications**



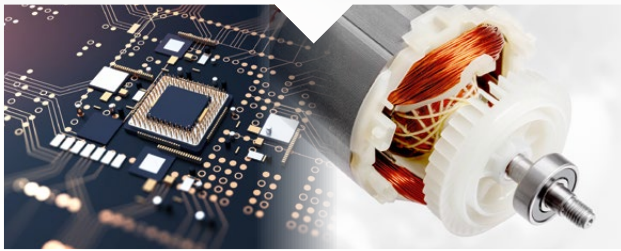
## Reliable protection with the highest precision

Microtherm offers standardized as well as customer specific solutions for numerous applications in the field of industrial electric motors, automotive technology, home appliances as well as for heating and air conditioning tasks.



### Electrical industry

Temperature switches, probes, thermal sensors, current detectors, limiters, control boards, etc.



### Home appliance industry

Coffee vending machines, hair dryers, fan heaters, vacuum cleaners, mixers, washing machines, dishwashers, etc.



### Automotive industry

Windscreen wipers, seat adjustment units, power windows, seat heating systems, engine preheaters, ventilation controls, ventilation motors, starters, mirrors, etc.



### Capital goods industry

Machine tools, robots, production lines, welding equipment, heating systems, air conditioners, wind power plants, power plants, railways, motors/transformers, etc.

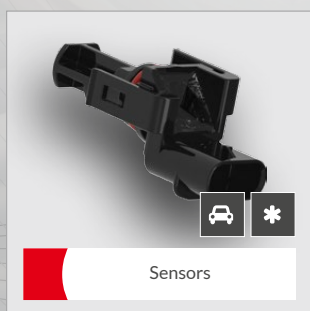
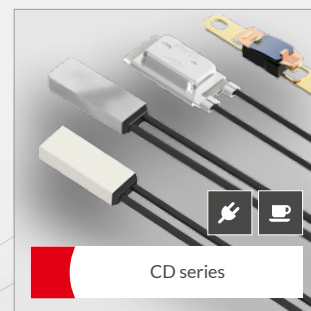
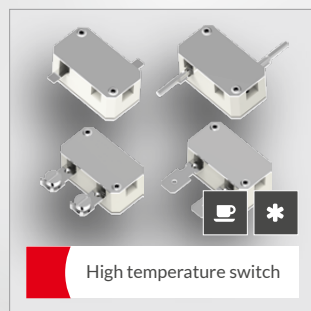
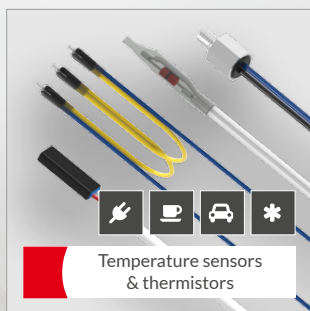
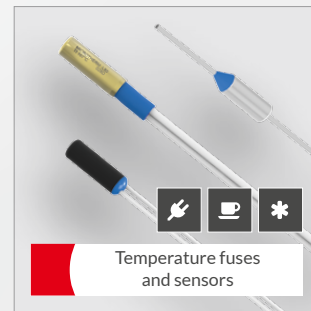
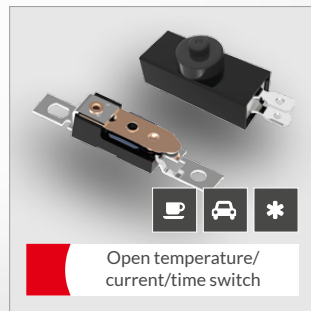
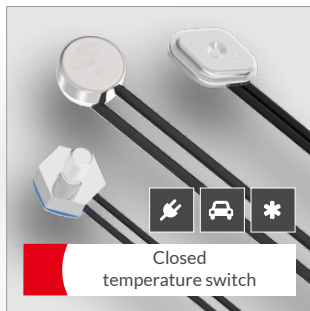




Both, the type of product which is suited to each industry as well as the variety of alternatives which are specified for a particular application offer our customers a unique selection.

## Powerful products for temperature protection

The standard product range includes products for temperature protection applications. Thereby, our products are distinguished by a high and precise switching performance. A long service life and narrow tolerances, as well as precise hysteresis are a guarantee for the functional reliability.



Our small form factors and various design shapes, guarantee the universal installation capability into the customer components. The product portfolio includes a wide range of temperature and current carrying capacity for various functional requirements.







## Customer-specific solutions

Project related add-ons for technical applications

in the industrial and automotive sector



Different sensor solutions, tailored to customer requirements: STS, PT, NTC, PTC, various temperature protection solutions



Assisting our customers through the optimisation of manufacturing processes



Problem solving from the concept idea to serial production

Our Research and Development Department is the central building block for the future of the company. Here, ideas for new products and applications are conceived. The focus is on intensive project work to find the perfect customer solution.

We will take care of your task! According to our understanding, the quality of a Development Department is defined by a significant desire to implement in addition to the technical competence, a clear customer focus, as well as a continuous service-minded work performance. These include short response times and a high degree of process-accompanying support throughout the project.

Our product development and design department will accompany customers from the definition phase all the way up to the introduction to the series production. The professional project implementation includes the feasibility study, sample production and the conducting of tests.








## Manufacturing processes

with the most modern production technologies

Our competence begins with the concept idea and continues through development and production to the customer – the complete package from a single source.



We extended our core competence of the interpretation and production of bimetallic switches to offer our customers value-adding overall solutions. Today we don't just provide high-quality and safe products but also offer market intelligent solutions which we develop and implement, based on our experience and innovative drive together with our customers. Our worldwide manufacturing locations stand for the most modern production technologies and the highest quality requirements. Our expertise allows us to use a number of manufacturing processes with various materials and constantly improve our abilities. This creates value for our customers.





# We guarantee functionality - always and reliable

## Certifications

Microtherm holds the DIN ISO 9001:2015 and IATF 16949 certifications. The quality management is present throughout the company, from the product development through the production and logistics process, and all the way up to the necessary documentation.

Through this, Microtherm has been able to meet the demanding requirements of the automotive industry for over five years, and has transitioned these into the classic business fields within our industry in a pioneering role.

This is a special qualification asset that distinguishes us from our competitors. Compliance with the required standards and the ongoing development and improvement of business processes, are a matter of course for us - because at Microtherm customer satisfaction is paramount in all business fields.

The production sites abroad also have the industry-specific and important quality certifications. Microtherm Czech Republic complies with EN ISO 9001:2015, Microtherm Shanghai, while China is compliant with IATF 16949. The certification at Canadian Thermostats & Control Devices Ltd. in Canada corresponds to ISO 9001:2015.

In addition, Microtherm has the status of Authorised Economic Operator (AEO), which allows us to simplify the customs clearance, and thus the logistics processes.



## Approbation

Our products are safety-relevant and must therefore reliably guarantee certain properties. Therefore, all parts and components are subjected to a certification process. These test and approval is an important quality criterion, and a mandatory requirement for the marketing of our customer's finished products.

We apply for the appropriate certifications from the major certification bodies:

- VDE - Association of electrical engineering
- UL - Underwriters Laboratories
- CSA - Canadian Standards Association

- CCC - China compulsory certification
- ENEC - European norms electrical certification

Through these certifications, our products meet all the approvals for the markets in Europe, (North) America and Asia. The certifications are related to all production sites of the Microtherm Group, which makes the quality management an important building block for our customers.





# Innovative safety technology

## knows no limits

### Our locations

#### Production & sales locations

##### Germany

Microtherm GmbH  
Taschenwaldstr. 3  
75181 Pforzheim  
Germany

Tel. +49 7231 787 0  
info@microtherm.de  
www.microtherm.de

##### The Czech Republic

Microtherm CZ s.r.o.  
K Drůbežárně 178  
549 54 Police nad Metují  
Czech Republic  
Tel. +420 491 511 411  
mic@microtherm.cz  
www.microtherm.cz

##### China

Microtherm Electronic Technology  
(Shanghai) Co., Ltd.  
Floor 3, Block 1,  
No.388 ShuangLian Rd  
XuJing Town, Shanghai 201702  
P.R. China  
Tel. +86 21 5258 3995  
mic-china@microtherm.cn  
www.microtherm.cn

##### Canada

Canadian Thermostats & Control  
Devices Ltd.  
8415 Mountain Sights Avenue  
Montreal (Quebec), H4P 2B8  
Canada  
Tel. +1 514 739 3274  
sales@cantherm.com  
www.cantherm.com

#### Sales locations

##### Italy

Microtherm GmbH  
Sede Italiana  
Viale Lombardia 266  
20861 Brugherio (MB)  
Italy  
Tel. +39 03 9963 5911  
www.microtherm.de/it/

##### Brazil

Microtherm do Brasil Ltda.  
Rua Jairo Gois 33, Conjunto 41  
São Paulo  
SP CEP: 03004-010  
Brazil  
Tel. +55 19 3882 2706  
microtherm@microtherm.com.br  
www.microtherm.com.br

##### India

Microtherm India Private Limited  
Gut No.355 Plot no.41, Ambethan  
Road, Kharabwadi, Tal-Khed, Chakan  
Pune-410501, Maharashtra  
India  
Tel. +91 81 49884455  
sales@microtherm.in  
www.microtherm.de/en/

#### Sales representatives

##### Sweden

Kraus & Naimer AB  
Dr. Widerströms Gata 11,  
Fruängen  
Box 42097  
12614 Stockholm  
Sweden  
Tel. +46 8 97 00 80  
order.de@krausnaimer.com  
www.krausnaimer.se

##### Finland

Etra Electronics Oy  
Lampputie 2  
00740 Helsinki  
Finland  
Tel. +35 820 7652302  
johan.sommarek@etra.fi  
www.etraelectronics.fi

##### Austria, Croatia, Romania, Serbia, Slovenia

Stepan GmbH  
Münichreiterstraße 7  
1130 Vienna  
Austria  
Tel. +43 1 8779488  
office@stepan.at  
www.stepan.at

##### England, Ireland

Thermal Protection & Controls Limited  
Suite 6, Falcon House  
19 Deer Park Road  
London  
SW19 3UX  
UK  
Tel. +44 (0) 20 3490 4299  
sales@thermal-protection-controls.  
co.uk  
www.thermal-protection-controls.com

##### Hungary

MF-Team Ltd.  
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csiszer.b@mfteam.hu  
www.mfteam.hu

##### The Netherlands

Tasseron B.V.  
Ambachtshof 50  
2632 BB Nootdorp  
The Netherlands  
Tel. +31 15 310 40 00  
info@tasseron.nl  
www.tasseron.nl

##### Turkey

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Yukarı Dudullu Mah. Tavukçuyolu  
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34776 Ümraniye - Istanbul  
Turkey  
Tel. +90 216 527 36 41  
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www.kmc-grup.com

##### Japan

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MFPR Roppongi Azabudai Building 3F  
1-8-7 Roppongi,  
Minato-ku, Tokyo  
106-0032  
Japan  
+81 (03) 5114 0711  
sales@correns.co.jp  
www.correns.co.jp

## Perspectives of a successful partnership

Wherever the highest possible level of innovative technology in control, regulation and measurement is concerned and individual problem solutions for the safety of your products are required, we conduct the technical dialogue. We pursue the same goal as our partners: competent advice and development of new product ideas for the technically economical, safe and environmentally friendly improvement of production methods and product quality.



# **MICROTHERM**



## **Location in Pforzheim / Germany**

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