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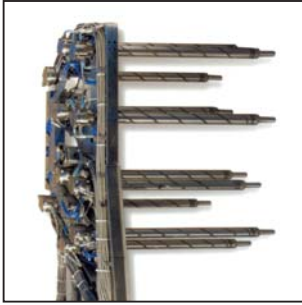
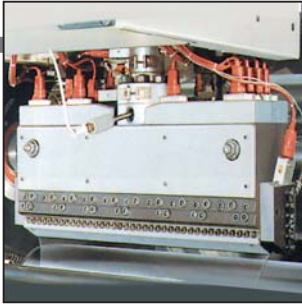
# TE

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温度传感器  
Temperature Sensors  
5.0



**TÜRK+HILLINGER**  
THERMAL TECHNOLOGY



## 铠装电热偶 SHEATHED THERMOCOUPLES

铠装热电偶由两个不同的金属丝焊接在一起，并嵌入在不锈钢外壳内的高度压实的氧化镁中。热电偶的测量点可以与护套焊接，从而提供接地连接。或者可以不接地和与护套绝缘。

### 特色

- 快速响应
- 防潮设计
- 具有优良应变消除的连接导线的坚固结构
- 小型连接套管
- 易于弯曲
- 不锈钢护套
- 抗高温接出

The sheathed thermocouples consist of two dissimilar metal wires welded together and embedded in highly compacted magnesium oxide within a stainless steel housing. The measuring point of the thermocouple can be welded to the sheath thus providing a ground connection, or it can be supplied ungrounded and insulated from the sheath.

### Special features

- quick response time
- moisture proof design
- robust construction with excellent strain relief of the connection leads
- miniaturized connection sleeve
- easy to bend
- stainless steel sheathed
- high temperature resistant connection

也可用于屏蔽执行。  
Also available in shielded execution.

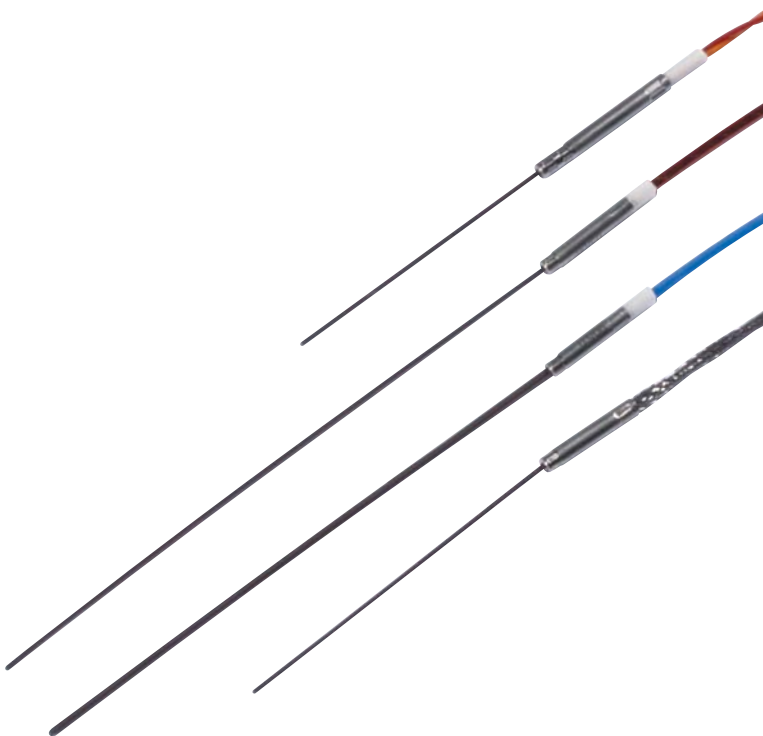
### 连接导线 Connection wires

单导线  
Single wires

聚酰亚胺 (Kapton) 包覆  
Polyimide (Kapton) - wrapping

PTFE - 包覆  
PTFE - wrapping

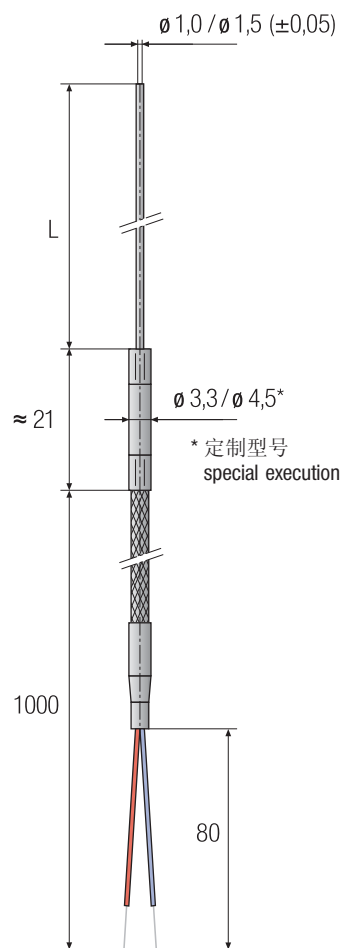
DRGSL (丝网软管) - 包覆  
DRGSL (Wire mesh hose) - wrapping



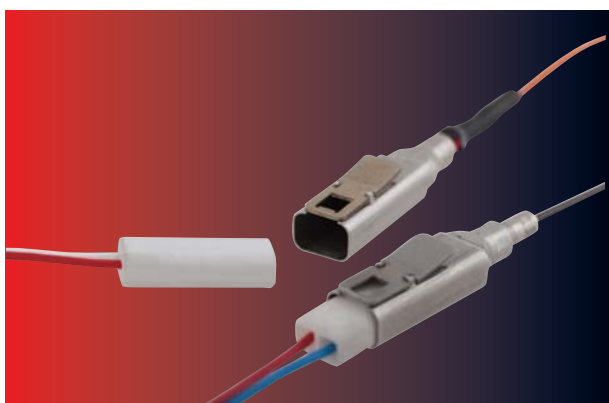
## 技术参数 TECHNICAL DATA

电热偶	Fe-CuNi (DIN 43713) J 型作为标准型 Ni-CrNi (DIN 43713) K 型可按要求提供 (IEC 584)
补偿线	Fe-CuNi PTFE 绝缘线 (+ 红; - 蓝) Ni-CrNi PTFE 绝缘线(+ 红; - 绿), 其他类型可按要求提供
绝缘材料	高度压实氧化镁
护套材料	Typ J - CrNi-不锈钢 Typ K - 合金 600
最高测量温度	Fe-CuNi 500°C / Ni-CrNi 900°C
直径	1,0 mm; 1,5 mm; 3,0 mm; 4,0 mm; 5,0 mm
结构	热电偶不接地或接地

Thermocouple	Fe-CuNi (DIN 43710) type L as a standard type NiCrNi (DIN IEC 584-1) type K to be supplied on request (DIN EN 60584-1)
Compensating leads	Fe-CuNi, PTFE insulated (+ red; - blue) NiCrNi, PTFE insulated (+ red; - green), further executions on request
Insulation material	magnesium oxide highly compacted
Sheath material	Type J - stainless steel Type K - nickel chrome iron alloy
Max. allowable measuring temperature	Fe-CuNi 500°C / NiCrNi 900°C
Diameter	1,0 mm; 1,5 mm; 3,0 mm; 4,0 mm; 5,0 mm
Construction	Thermocouple ungrounded or grounded



## 带插头的TE TE WITH CONNECTOR



如果需要, TE也可带一个特殊的插头。

If requested the TE is also available with a special connector.

## 温度传感器类型MTC TEMPERATURE SENSOR TYPE MTC



MTC温度传感器以其独特的风格和专利结构，具有多种优点。

The MTC temperature sensor offers with its unique style and patented construction, various advantages.



### 优点

- 通过接地热电偶头产生非常快的响应时间
- 在尺寸上小而窄
- 测量点精密和牢靠地定位
- 便于定位的长槽和安装螺钉
- 引线的弹簧弯曲保护

### 技术参数

安装: 带长槽的窄不锈钢安装板及安装螺钉M4×5.5  
 接地: 可选接地或不接地  
 直径: 4 mm, 其他尺寸需定制  
 安装高度: 从5 mm开始  
 浸没深度: < 6 mm  
 温度范围: 最高到 300°C  
 如需要采用矿物绝缘方式可耐最高 450°C温度  
 壳体材料: 1.4301  
 接出: 各种长度和类型的聚酰亚胺的, +型和,型, 聚四氟乙烯或玻璃纤维绝缘导线

### 应用

注塑成型应用、模具设计和模具制造业、热流道技术和各种工业应用

### Advantages

- very fast response time through a grounded thermocouple head
- small and narrow in size
- precise and tight positioning at the measuring point
- long slot and a mounting screw for easy positioning
- spring bend protection for leads

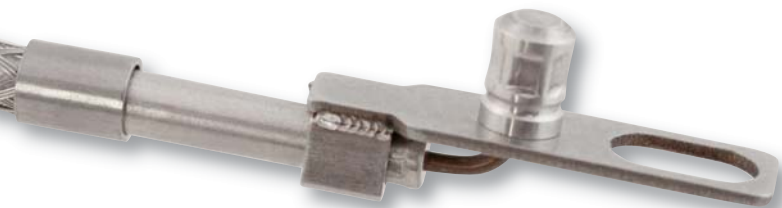
### Technical Data

Mounting: narrow stainless steel mounting plate with long slot and mounting screw M4 x 5.5  
 Grounding: available grounded or ungrounded  
 Diameter: 4 mm, other dimensions on request  
 Immersion Depth: starting at 5 mm  
 Installation Height: < 6 mm  
 Temperature range: up to 300°C  
 on request mineral-insulated execution up to 450°C  
 Housing Material: 1.4301  
 Connection: Kapton leads in various lengths and styles, type J and K, PTFE or glass fibre insulated

### Applications

Injection molding applications, tool design and mold building industry, hotrunner technologies and various industrial applications

## 高温元件 HIGH TEMPERATURE EXECUTION



传感器类型 MTC也可在500°C的高温下运行。可选接地或不接地方式。

Sensors type MTC are also in a high temperature execution up to 500° C available. Optional in a grounded or ungrounded execution.

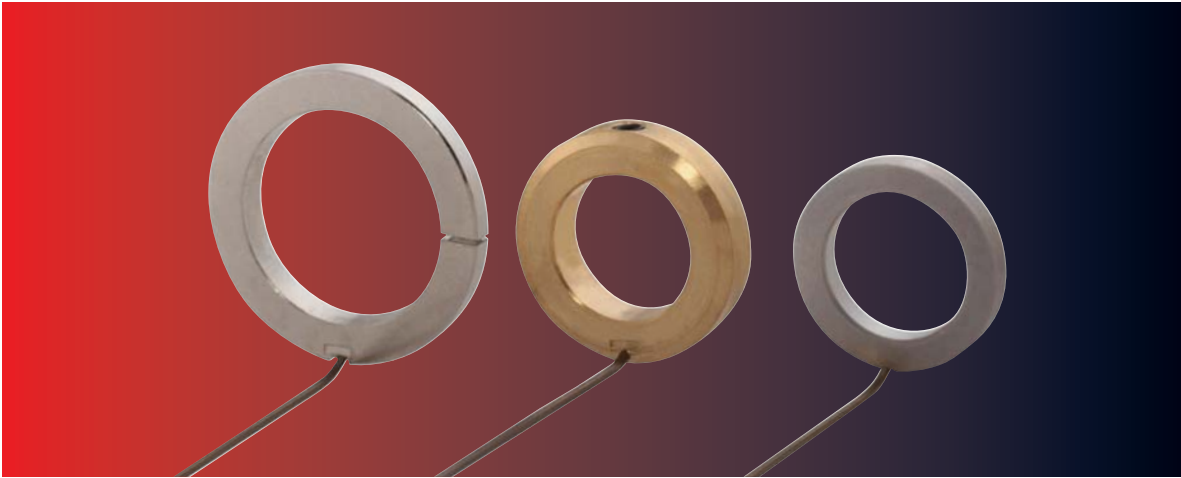
### 特殊方式

在特殊的情况下，高温版本可以达到750°C。

### Special execution

In a special execution the high temperature version is available up to 750° C.

## 环状热电偶 RING-THERMOCOUPLE



### 类型

温度传感器也是环形的。可选铆接或钎焊。

材料和尺寸可以定制。

### Execution

The temperature sensors are also available in ring shape. Optional staked or brazed.

Material and dimensions of the ring on request.

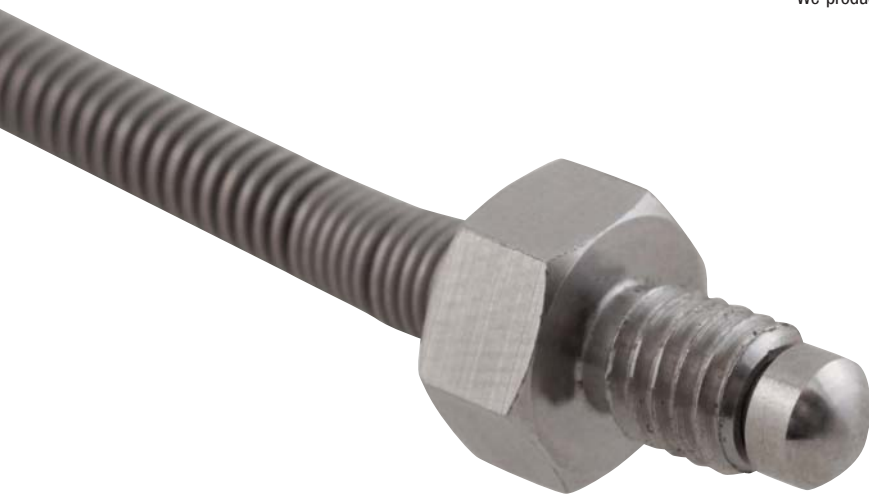
## 特殊结构 SPECIAL CONSTRUCTIONS

### 定制






我们可以按你具体要求定制温度传感器

### Customization

We produce temperature sensors according to your customized request



## 导线种类 LEAD TYPES

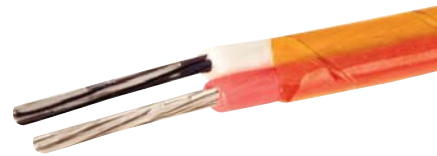
型号 Type	材料 Material	标准 Standard	颜色代码 (+/-) Color coding	夹套 Jacket		
	J	Fe / CuNi	IEC584	黑/白   blk/wht	聚酰亚胺 (Kapton) <sup>•</sup>	Polyimide (Kapton) <sup>•</sup>
	J	Fe / CuNi	IEC584	黑/白   blk/wht	PTFE (黑色夹套) <sup>•</sup>	PTFE (jacket black) <sup>•</sup>
	J	Fe / CuNi	IEC584	黑/白   blk/wht	DRGSL (金属丝网管)	DRGSL (wire mesh tube)
	J	Fe / CuNi	IEC584	黑/白   blk/wht	无 (单线)	none (single line)
	J	Fe / CuNi	ANSI / MC96.1	黑/红   wht/red	聚酰亚胺 (Kapton) <sup>•</sup>	Polyimide (Kapton) <sup>•</sup>
	J	Fe / CuNi	ANSI / MC96.1	黑/红   wht/red	DRGSL (金属丝网管)	DRGSL (wire mesh tube)
	J	Fe / CuNi	ANSI / MC96.1	黑/红   wht/red	无 (单线)	none (single line)
	J	Fe / CuNi	DIN 43714	红/蓝   red/blu	DRGSL (金属丝网管)	DRGSL (wire mesh tube)
	J	Fe / CuNi	DIN 43714	红/蓝   red/blu	无 (单线)	none (single line)
	K	NiCr / Ni	IEC584	绿/白   grn/wht	聚酰亚胺 (Kapton) <sup>•</sup>	Polyimide (Kapton) <sup>•</sup>
	K	NiCr / Ni	IEC584	绿/白   grn/wht	PTFE (黑色夹套) <sup>•</sup>	PTFE (jacket green) <sup>•</sup>
	K	NiCr / Ni	IEC584	绿/白   grn/wht	DRGSL (金属丝网管)	DRGSL (wire mesh tube)
	K	NiCr / Ni	IEC584	绿/白   grn/wht	无 (单线)	none (single line)
	K	NiCr / Ni	ANSI / MC96.1	gelb/rot   yel/red	聚酰亚胺 (Kapton) <sup>•</sup>	Polyimide (Kapton) <sup>•</sup>

注意: 芯绝缘PTFE  
CAUTION: Core insulation PTFE

• 可以使用T+H剥线钳  
T+H wire stripper can be used

**NEU!  
NEW!**

## T+H 剥线器 T+H WIRE STRIPPER



为方便和舒适的安装, 我们提供了特殊的两步T+H剥线器。

零件号 600025

For an easy and comfortable installation we offer a special 2-step T+H wire stripper.

Part number 600025

## 铠装 PT 100/PT 1000 SHEATHED PT 100/PT 1000

铂传感器是利用铂在温度变化时其自身欧姆值也随之变化的特性来测量温度。它们被用于下列情况:

- 在大的温度范围要求保持高的测量精度 (-50°C到 +550°C)
- 快速响应
- 需要长期稳定
- 不锈钢护套

我们可以提供铂100或铂1000电阻装在不锈钢管中，并嵌入在由金属氧化物构成的电绝缘体中做为铂传感器

### 尺寸

Ø3 mm, Ø4 mm, Ø5 mm, 长度最短 20 mm

### 结构

聚四氟乙烯绝缘连接引线，可根据要求用金属丝网软管保护。



Platinum sensors are measuring resistors with a changing ohmic value as a function of the temperature applied. They are used when

- a high measuring accuracy is required over a wide temperature range (-50°C through +550°C)
- a quick response time and long term stability is required
- stainless steel sheathed

We can supply platinum sensors as a Pt 100 or a Pt 1000 resistor sheathed in a stainless steel tube and embedded in an electrical insulator consisting of a metal oxide.

### Dimensions

Ø3 mm, Ø4 mm, Ø5 mm, length from 20 mm

### Construction

Teflon insulated connection leads which can be protected with a wire mesh hose upon request.

直径/Diameter	长度/Length	零件号/Art.No.
3,1 mm	20 mm	140912
4,0 mm	20 mm	140913
5,0 mm	20 mm	140914

带500 mm长的PTFE 导线 / with PTFE-wire 500 mm length

## 铠装NTC-电阻器 SHEATHED NTC-RESISTORS

NTC电阻器（负温度系数）是温度测量电阻器，我们可以提供嵌在不锈钢护套内紧凑的热导体做为这种电阻器。其具有很短响应时间。

### 尺寸

Ø3 mm, Ø4 mm, Ø5 mm, 最短长度 20 mm

NTC-resistors (negative temperature coefficient) are temperature measuring resistors which we can supply as a compacted hot conductor within a stainless steel sheath. These resistors have a very short responding time.

### Dimensions

Ø3 mm, Ø4 mm, Ø5 mm, length from 20 mm

## 您全方位的合作 伙伴 YOUR COMPETENT PARTNER

我们高度推荐我们广泛的产品，以及我们在电热元件领域的最新发展。

We highly recommend our established wide range of products as well as our latest developments in the field of electric heating elements.

- **RHK 型管式加热器**  
**Tubular heater type RHK**
- **EHK 型浸没式加热器**  
**Immersion heaters type EHK**
- **HLP 型大功率加热棒**  
**High performance cartridge heater type HLP**
- **RP/RPT 型管状棒式加热器**  
**Tubular cartridge heaters type RP/RPT**
- **空气加热器**  
**Air heater**
- **HP 型喷嘴加热器**  
**Nozzle heaters type HP**
- **FLEX 型柔性管式加热器**  
**Flexible tubular heater FLEX**
- **ALW 型功率电阻**  
**Power resistors type ALW**
- **FH 型法兰加热器**  
**Flange heaters type FH**

### 公司

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