



**EuroSensors**

Thermocouples with terminal head

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### Types of thermocouples

Thermocouples are adapted to specific applications depending on the temperature range to be measured, the accuracy required and the environment in which they will be used. They are differentiated by letters (Type K, J, N, T, etc....) which correspond to the presence of materials that can measure a certain temperature range.

**Type K** NiCr-NiAl (NiCr-Ni)

**Type J** Fe-CuNi

**Type N** NiCrSi-NiSi

**Type T** Cu-Cuni

The most commonly used is the type K which is capable of measuring temperatures from - 40°C to + 1200°C. It is made from a chrome and an aluminum wire.

### Thermocouple classes

Classes of thermocouples have certain tolerance values and temperature limits of validity. The most common classes are **class 1** and **class 2**.

With **class 1** you get more precise measurement values while **class 2** provides a wider tolerance values.

### Types of terminal heads

Many alternative types of terminal head are available to meet the requirements of various applications. Variations exist in size, material, accommodation, resistance to media, resistance to fire or even explosion and in other parameters.

Common types are shown below but there are many special variants available to meet particular requirements.

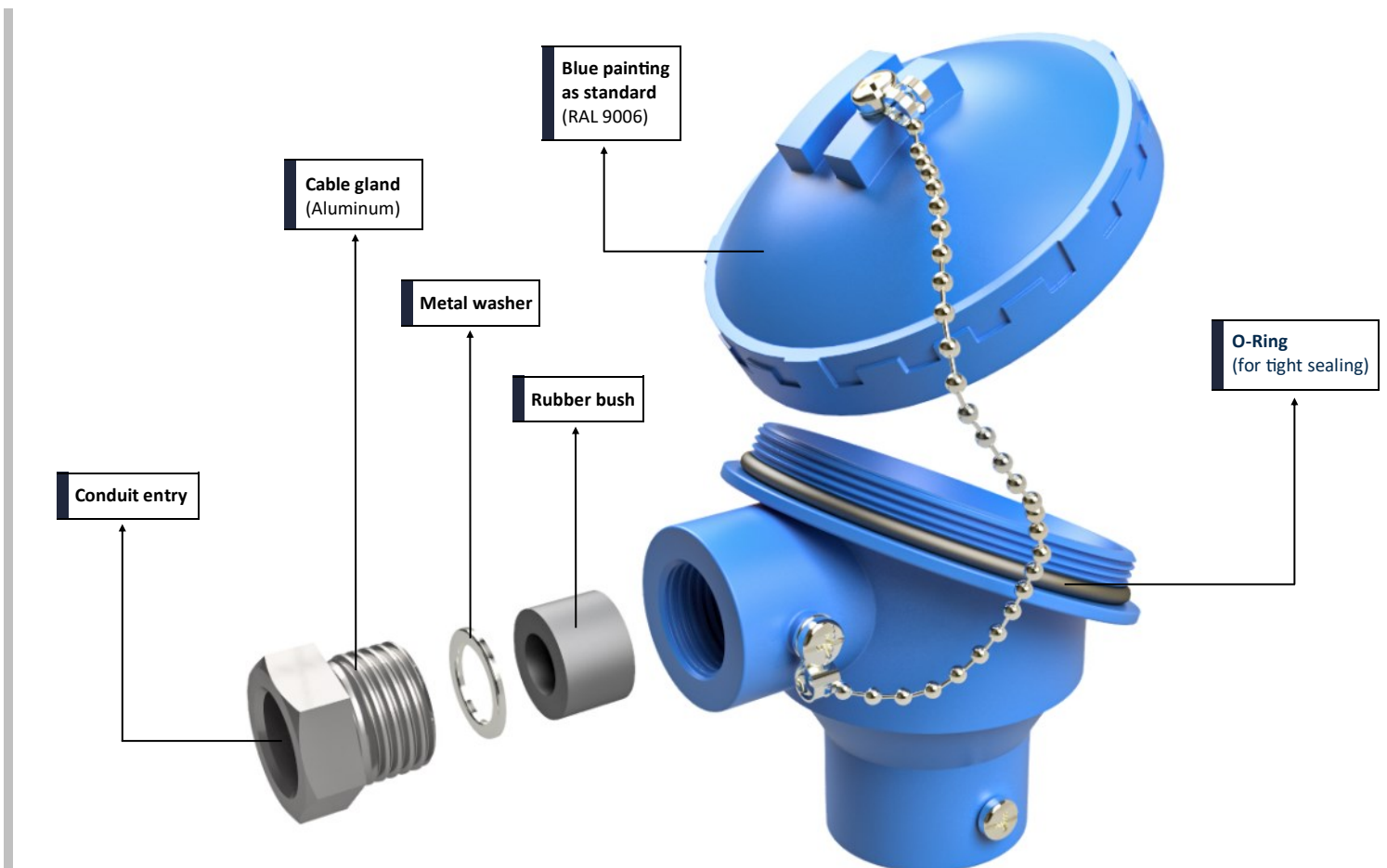
### What are terminal heads ?

Terminal heads are a type of cold end termination which are common on industrial type temperature sensors. A temperature sensor will be encased in a ceramic or metal sheath which will be terminated at the cold end with a terminal head. Inside the head, terminal blocks or temperature transmitters are placed to carry the sensor signal to instrumentation.

These are protected from the external environment as terminal heads often provide good ingress protection (IP) and temperature protection. Most commonly terminal heads are made from aluminum but can be stainless steel, cast iron or plastic depending on the application. There are many standardized designs of head, the most common being KNE, ALA and BUZ.

### Inside terminal head




**Terminal head component breakdown**

**What is a terminal block ?**

Terminal block located in a “head” allow for the connection of extension wires. Various materials are used for screw or solder terminations including copper, plated brass and, for the best performance in the case of thermocouples, thermoelement alloys. The various head styles cater for a wide variety of probe diameters and cable entries.

Terminal blocks provide a secure and organized way to terminate multiple wires. The wires are inserted into a clamping mechanism that holds them in place, making it easier to manage and connect different wires within a circuit. Terminal blocks provide a convenient and secure way to connect thermocouple wires to the measuring instrument or control system when using thermocouples. Terminal blocks are available in 2, 3, 4, and 6 poles with center hole (spring loading).


**What is a temperature transmitter ?**

A temperature transmitter is a device that converts the signal produced by a temperature sensor into a standard instrumentation signal representing a process variable temperature being measured and controlled. The most common transmitter instrumentation output signal is 4 to 20 mA. The signal from the temperature transmitter is sent to a controller that determines what action is required and generates an appropriate output signal.

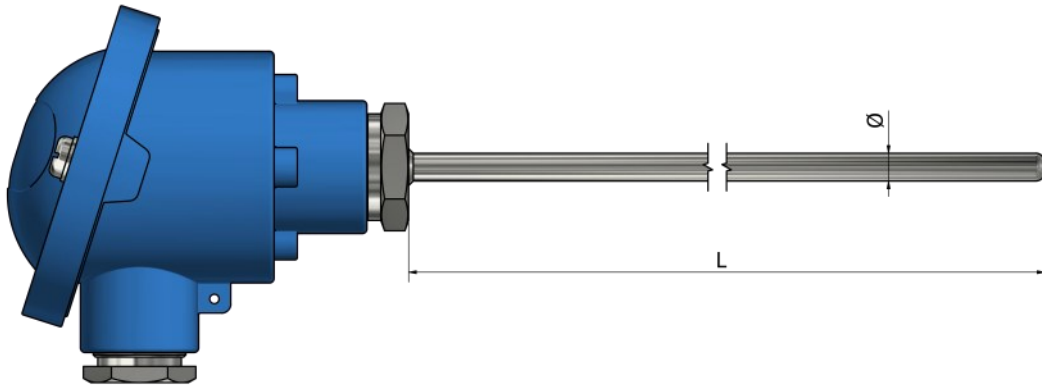
Controllers are either a PLC or a DCS in process control today.

More on temperature transmitters and terminal blocks. See in the part “*Accessories*”.





# TH00 – Thermocouples with terminal head Standard



\*Tube material *Stainless steel 316L*

## Ordering information

### 1. Thermocouple:

- Type K     Type N     Type J     Type T     Type E  
 Type R     Type S     Type B     Other:

### Additional:

Application:

Operating temperature (min/max):

Type of environment:

Accessories:  
See the part "Accessories"

Quantity:

Note:

2. Number of thermocouples:     x 1     x 2

### 3. Class:

- Class 1     Class 2

4. Length L (mm):

5. Diameter Ø (mm):

### 6. Junction type:

- Ungrounded     Grounded

### 7. Connection head: (see the part "Accessories")

- Type B     Type DAN     Type M     Type N  
 Type Ex     Type NS     Other:

### 8. Mounting:

- Wires     Terminal block     Transmitter (°C):  
Specify temperature range

## How to order?

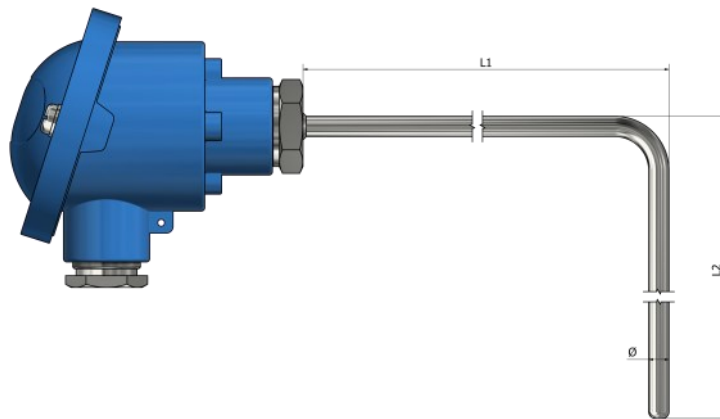


Choose the desired characteristics of your sensor by marking the checkboxes and by filling up the text. You can provide sketches, images, personal notes, special requirements or any important data. For additional questions and assistance, feel free to contact us.



# TH01 – Thermocouples with terminal head

## Standard (90° bend)



\*Tube material **Stainless steel 316L**

### Ordering information

#### 1. Thermocouple:

- Type K     Type N     Type J     Type T     Type E  
 Type R     Type S     Type B     Other:

#### Additional:

Application:

Operating temperature (min/max):

Type of environment:

Accessories:  
See the part "Accessories"

Quantity:

Note:

2. Number of thermocouples:     x 1     x 2

#### 3. Class:

- Class 1     Class 2

#### 4. Lengths L1 and L2 (mm):

L1 \_\_\_\_\_ L2 \_\_\_\_\_

#### 5. Diameter Ø (mm):

#### 6. Junction type:

- Ungrounded     Grounded

#### 7. Connection head: (see the part "Accessories")

- Type B     Type DAN     Type M     Type N  
 Type Ex     Type NS     Other:

#### 8. Mounting:

- Wires     Terminal block     Transmitter (°C):  
Specify temperature range

### How to order?

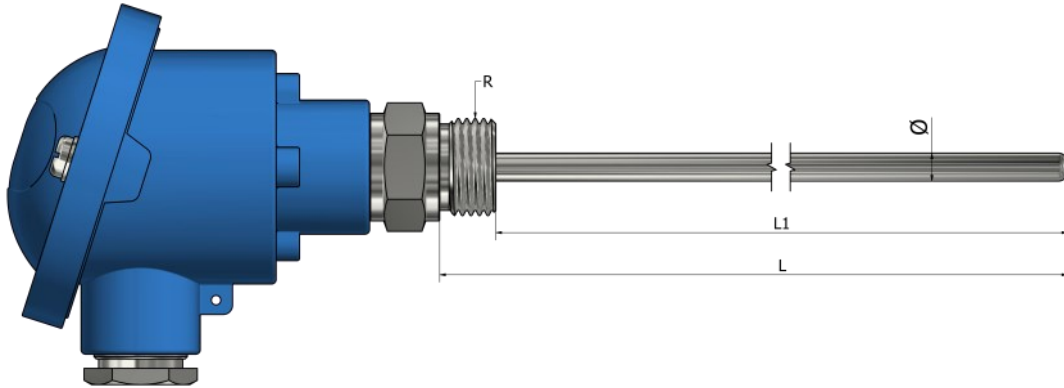


Choose the desired characteristics of your sensor by marking the checkboxes and by filling up the text. You can provide sketches, images, personal notes, special requirements or any important data. For additional questions and assistance, feel free to contact us.



# TH10 – Thermocouples with terminal head

## Standard with fixed thread



\*Tube and thread material **Stainless steel 316L**

### Ordering information

#### 1. Thermocouple:

- Type K     Type N     Type J     Type T     Type E  
 Type R     Type S     Type B     Other:

#### Additional:

Application:

Operating temperature (min/max):

Type of environment:

Accessories:  
See the part "Accessories"

Quantity:

Note:

2. Number of thermocouples:     x 1     x 2

#### 3. Class:

- Class 1     Class 2

#### 4. Length L or L1 (mm):

L \_\_\_\_\_ L1 \_\_\_\_\_

#### 5. Diameter Ø (mm):

#### 6. Junction type:

- Ungrounded     Grounded

#### 7. Thread:

- 1/2" BSPP     1/4" BSPP     1/4" BSPT     M10  
 1/2" NPT     Other:

#### 8. Connection head: (see the part "Accessories")

- Type B     Type DAN     Type M     Type N  
 Type Ex     Type NS     Other:

#### 9. Mounting:

- Wires     Terminal block     Transmitter (°C):  
Specify temperature range

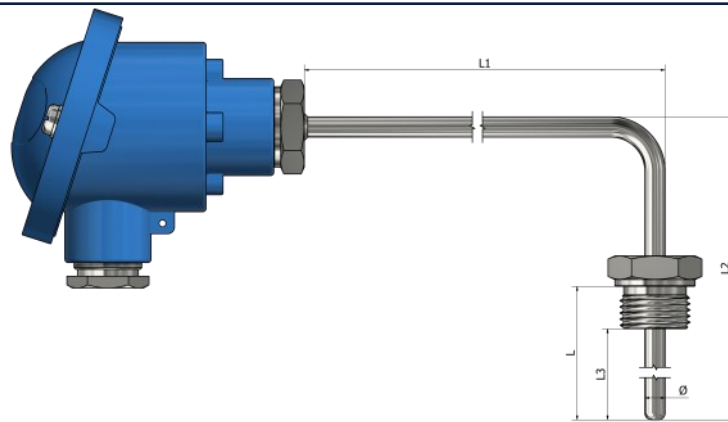
### How to order?

Choose the desired characteristics of your sensor by marking the checkboxes and by filling up the text. You can provide sketches, images, personal notes, special requirements or any important data. For additional questions and assistance, feel free to contact us.



# TH11 – Thermocouples with terminal head

## Standard with fixed thread (90° bend) (type 1)



\*Tube and thread material **Stainless steel 316L**

### Ordering information

#### 1. Thermocouple:

- Type K     Type N     Type J     Type T     Type E  
 Type R     Type S     Type B     Other:

#### 9. Connection head: (see the part "Accessories")

- Type B     Type DAN     Type M     Type N  
 Type Ex     Type NS     Other:

#### 2. Number of thermocouples:

- x 1     x 2

#### 10. Mounting:

- Wires     Terminal block     Transmitter (°C):  
Specify temperature range

#### 3. Class:

- Class 1     Class 2

#### Additional:

Application:

Operating temperature (min/max):

Type of environment:

Accessories:  
See the part "Accessories"

Quantity:

Note:

#### 4. Lengths L1 and L2 (mm):

L1 \_\_\_\_\_ L2 \_\_\_\_\_

#### 5. Length L or L3 (mm):

L \_\_\_\_\_ L3 \_\_\_\_\_

#### 6. Diameter Ø (mm):

#### 7. Junction type:

- Ungrounded     Grounded

#### 8. Thread:

- 1/2" BSPP     1/4" BSPP     1/4" BSPT     M10  
 1/2" NPT     Other:

### How to order?

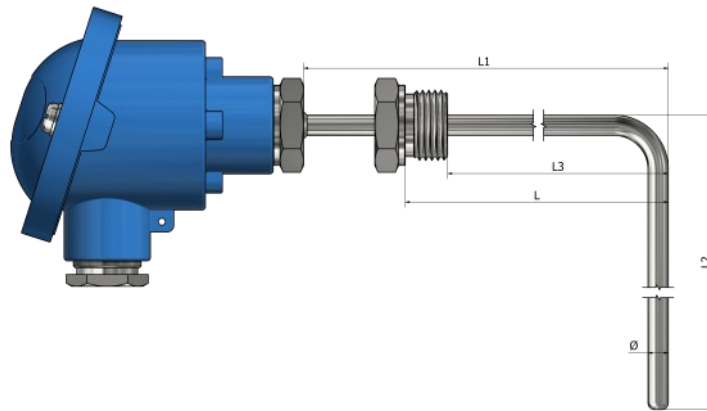


Choose the desired characteristics of your sensor by marking the checkboxes and by filling up the text. You can provide sketches, images, personal notes, special requirements or any important data. For additional questions and assistance, feel free to contact us.



# TH12 – Thermocouples with terminal head

## Standard with fixed thread (90° bend) (type 2)



\*Tube and thread material **Stainless steel 316L**

### Ordering information

#### 1. Thermocouple:

- Type K     Type N     Type J     Type T     Type E  
 Type R     Type S     Type B     Other:

#### 9. Connection head: (see the part "Accessories")

- Type B     Type DAN     Type M     Type N  
 Type Ex     Type NS     Other:

#### 2. Number of thermocouples:

- x 1     x 2

#### 10. Mounting:

- Wires     Terminal block     Transmitter (°C):  
Specify temperature range

#### 3. Class:

- Class 1     Class 2

#### Additional:

Application:

Operating temperature (min/max):

Type of environment:

Accessories:  
See the part "Accessories"

Quantity:

Note:

#### 4. Lengths L1 and L2 (mm):

L1 \_\_\_\_\_ L2 \_\_\_\_\_

#### 5. Length L or L3 (mm):

L \_\_\_\_\_ L3 \_\_\_\_\_

#### 6. Diameter Ø (mm):

#### 7. Junction type:

- Ungrounded     Grounded

#### 8. Thread:

- 1/2" BSPP     1/4" BSPP     1/4" BSPT     M10  
 1/2" NPT     Other:

### How to order?



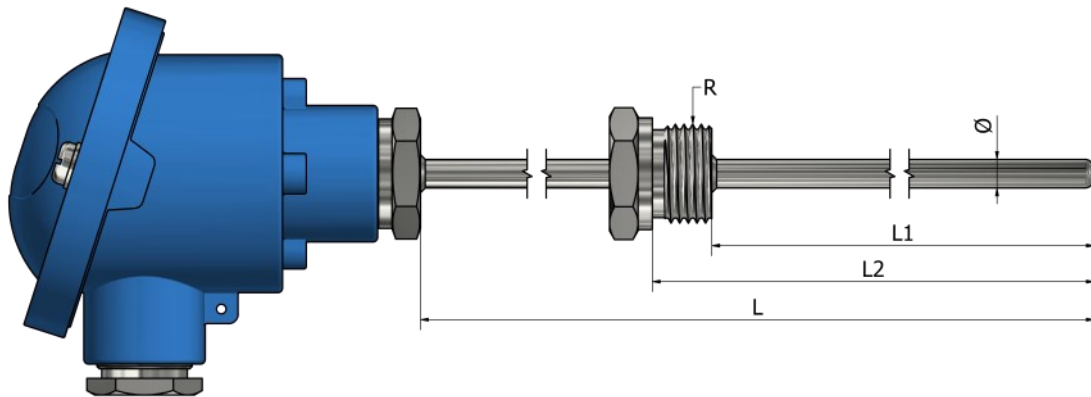
Choose the desired characteristics of your sensor by marking the checkboxes and by filling up the text. You can provide sketches, images, personal notes, special requirements or any important data. For additional questions and assistance, feel free to contact us.





# TH13 – Thermocouples with terminal head

## Standard with fixed thread (offset)



\*Tube and thread material **Stainless steel 316L**

### Ordering information

#### 1. Thermocouple:

- Type K     Type N     Type J     Type T     Type E  
 Type R     Type S     Type B     Other:

#### 2. Number of thermocouples:

- x 1     x 2

#### 3. Class:

- Class 1     Class 2

#### 4. Lengths L and L1 or L2 (mm):

L \_\_\_\_\_ L1 \_\_\_\_\_ L2 \_\_\_\_\_

#### 5. Diameter Ø (mm):

#### 6. Junction type:

- Ungrounded     Grounded

#### 7. Thread:

- 1/2" BSPP     1/4" BSPP     1/4" BSPT     M10  
 1/2" NPT     Other:

#### 8. Connection head: (see the part "Accessories")

- Type B     Type DAN     Type M     Type N  
 Type Ex     Type NS     Other:

#### 9. Mounting:

- Wires     Terminal block     Transmitter (°C):  
Specify temperature range

#### Additional:

Application:

Operating temperature (min/max):

Type of environment:

Accessories:  
See the part "Accessories"

Quantity:

Note:

### How to order?

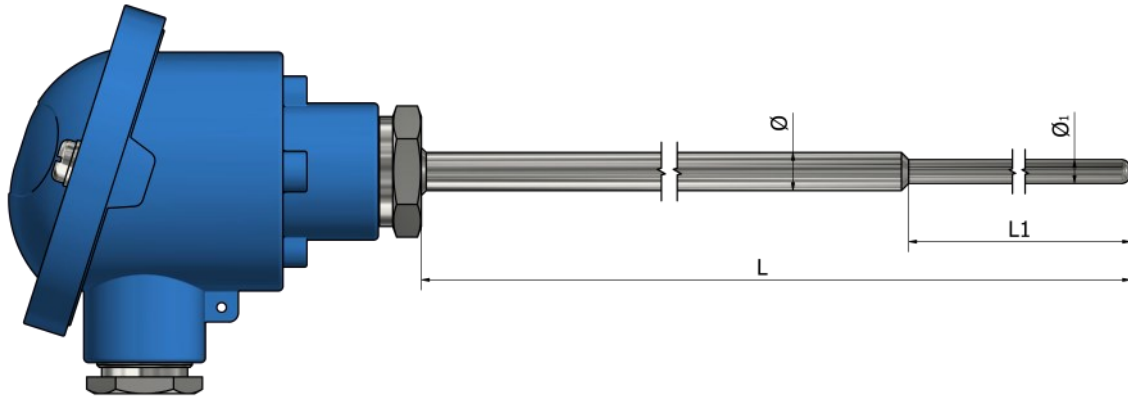
Choose the desired characteristics of your sensor by marking the checkboxes and by filling up the text. You can provide sketches, images, personal notes, special requirements or any important data. For additional questions and assistance, feel free to contact us.





# TH20 – Thermocouples with terminal head

## Reduced tip



\*Tube material *Stainless steel 316L*

### Ordering information

#### 1. Thermocouple:

- Type K     Type N     Type J     Type T     Type E  
 Type R     Type S     Type B     Other:

#### 2. Number of thermocouples:

- x 1     x 2

#### 3. Class:

- Class 1     Class 2

#### 4. Dimensions L and Ø (mm):

L \_\_\_\_\_ Ø \_\_\_\_\_

#### 5. Dimensions L1 and Ø1 (mm):

L1 \_\_\_\_\_ Ø1 \_\_\_\_\_

#### 6. Junction type:

- Ungrounded     Grounded

#### 7. Connection head: (see the part "Accessories")

- Type B     Type DAN     Type M     Type N  
 Type Ex     Type NS     Other:

#### 8. Mounting:

- Wires     Terminal block     Transmitter (°C):  
Specify temperature range

#### Additional:

Application:

Operating temperature (min/max):

Type of environment:

Accessories:  
See the part "Accessories"

Quantity:

Note:

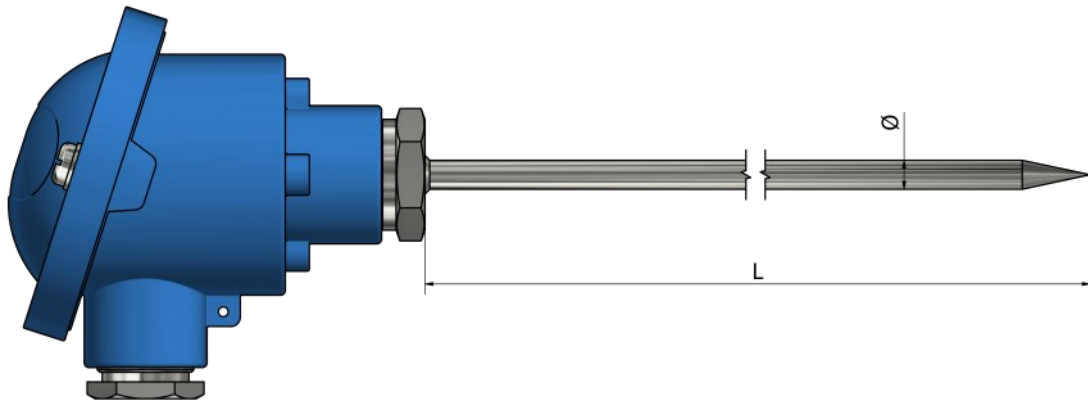
### How to order?

Choose the desired characteristics of your sensor by marking the checkboxes and by filling up the text. You can provide sketches, images, personal notes, special requirements or any important data. For additional questions and assistance, feel free to contact us.



# TH21 – Thermocouples with terminal head

## Pointed tip



\*Tube material *Stainless steel 316L*

### Ordering information

#### 1. Thermocouple:

- Type K     Type N     Type J     Type T     Type E  
 Type R     Type S     Type B     Other:

#### 2. Number of thermocouples:

- x 1     x 2

#### 3. Class:

- Class 1     Class 2

#### 4. Length L (mm):

#### 5. Diameter Ø (mm):

#### 6. Junction type:

- Ungrounded     Grounded

#### 7. Connection head: (see the part "Accessories")

- Type B     Type DAN     Type M     Type N  
 Type Ex     Type NS     Other:

#### 8. Mounting:

- Wires     Terminal block     Transmitter (°C):  
Specify temperature range

#### Additional:

Application:

Operating temperature (min/max):

Type of environment:

Accessories:  
See the part "Accessories"

Quantity:

Note:

### How to order?

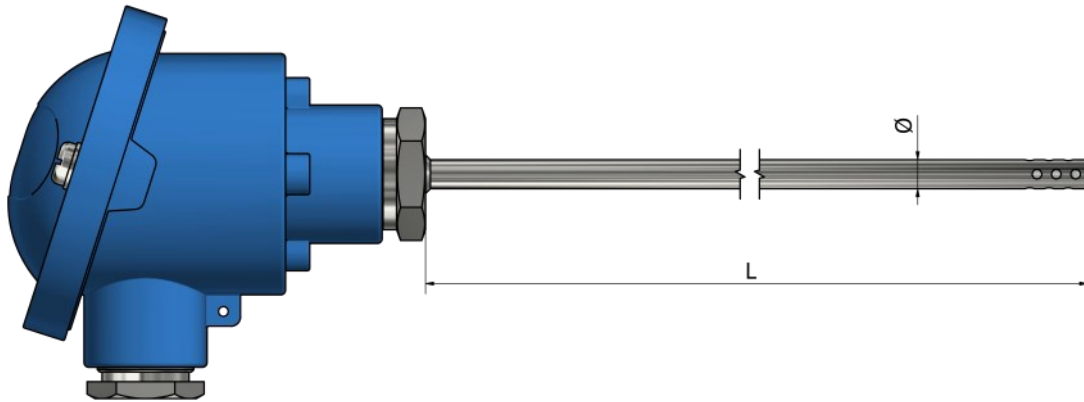


Choose the desired characteristics of your sensor by marking the checkboxes and by filling up the text. You can provide sketches, images, personal notes, special requirements or any important data. For additional questions and assistance, feel free to contact us.



# TH22 – Thermocouples with terminal head

## Open air



\*Tube material *Stainless steel 316L*

### Ordering information

#### 1. Thermocouple:

- Type K     Type N     Type J     Type T     Type E  
 Type R     Type S     Type B     Other:

#### 2. Number of thermocouples:

- x 1     x 2

#### 3. Class:

- Class 1     Class 2

#### 4. Length L (mm):

#### 5. Diameter Ø (mm):

#### 6. Junction type: Ungrounded

#### 7. Connection head: (see the part "Accessories")

- Type B     Type DAN     Type M     Type N  
 Type Ex     Type NS     Other:

#### 8. Mounting:

- Wires     Terminal block     Transmitter (°C):  
Specify temperature range

#### Additional:

Application:

Operating temperature (min/max):

Type of environment:

Accessories:  
See the part "Accessories"

Quantity:

Note:

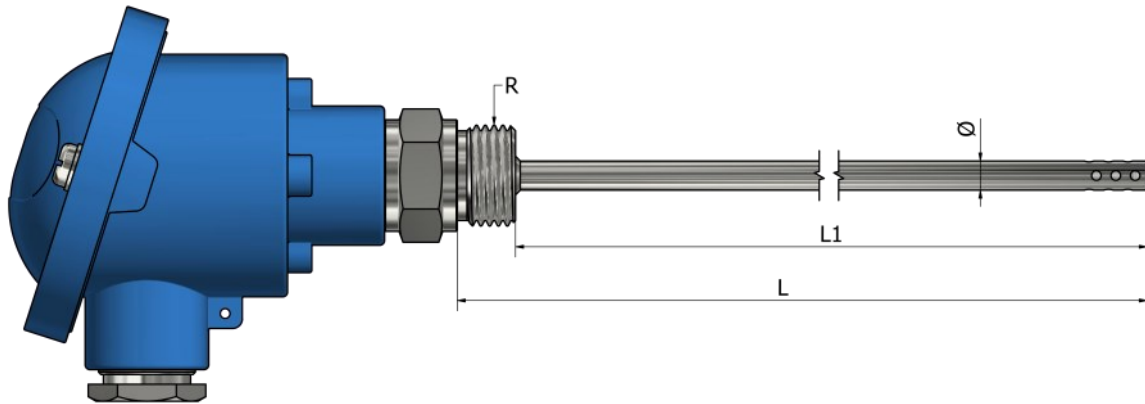
### How to order?

Choose the desired characteristics of your sensor by marking the checkboxes and by filling up the text. You can provide sketches, images, personal notes, special requirements or any important data. For additional questions and assistance, feel free to contact us.



# TH23 – Thermocouples with terminal head

## Open air with fixed thread



\*Tube and thread material **Stainless steel 316L**

### Ordering information

#### 1. Thermocouple:

- Type K     Type N     Type J     Type T     Type E  
 Type R     Type S     Type B     Other:

#### 2. Number of thermocouples:

- x 1     x 2

#### 3. Class:

- Class 1     Class 2

#### 4. Length L or L1 (mm):

L \_\_\_\_\_ L1 \_\_\_\_\_

#### 5. Diameter Ø (mm):

#### 6. Junction type: Ungrounded

#### 7. Thread:

- 1/2" BSPP     1/4" BSPP     1/4" BSPT     M10  
 1/2" NPT     Other:

#### 8. Connection head: (see the part "Accessories")

- Type B     Type DAN     Type M     Type N  
 Type Ex     Type NS     Other:

#### 9. Mounting:

- Wires     Terminal block     Transmitter (°C):  
Specify temperature range

#### Additional:

Application:

Operating temperature (min/max):

Type of environment:

Accessories:  
See the part "Accessories"

Quantity:

Note:

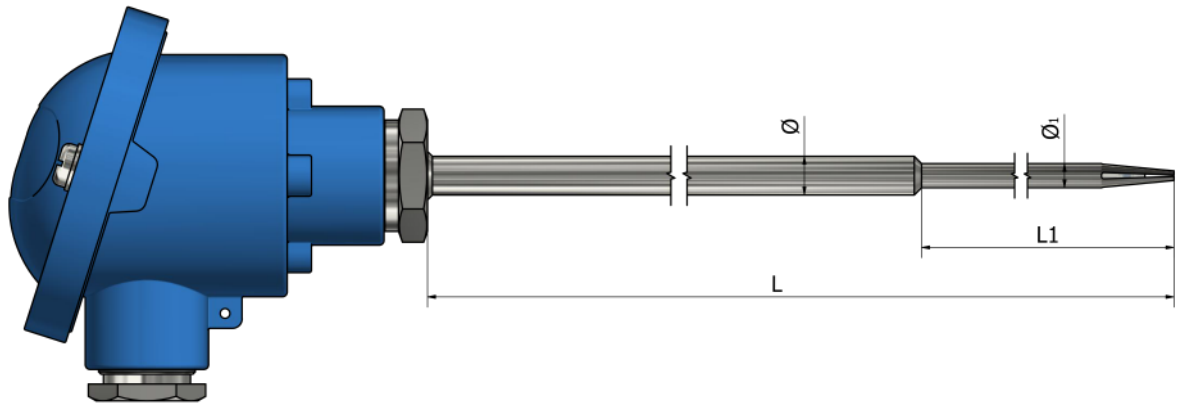
### How to order?

Choose the desired characteristics of your sensor by marking the checkboxes and by filling up the text. You can provide sketches, images, personal notes, special requirements or any important data. For additional questions and assistance, feel free to contact us.



# TH24 – Thermocouples with terminal head

## Open air with reduced tip



\*Tube material *Stainless steel 316L*

### Ordering information

#### 1. Thermocouple:

- Type K     Type N     Type J     Type T     Type E  
 Type R     Type S     Type B     Other:

#### 2. Number of thermocouples:

- x 1     x 2

#### 3. Class:

- Class 1     Class 2

#### 4. Dimensions L and Ø (mm):

L \_\_\_\_\_ Ø \_\_\_\_\_

#### 5. Dimensions L1 and Ø1 (mm):

L1 \_\_\_\_\_ Ø1 \_\_\_\_\_

#### 6. Junction type: Ungrounded

#### 7. Connection head: (see the part "Accessories")

- Type B     Type DAN     Type M     Type N  
 Type Ex     Type NS     Other:

#### 8. Mounting:

- Wires     Terminal block     Transmitter (°C):  
Specify temperature range

#### Additional:

Application:

Operating temperature (min/max):

Type of environment:

Accessories:  
See the part "Accessories"

Quantity:

Note:

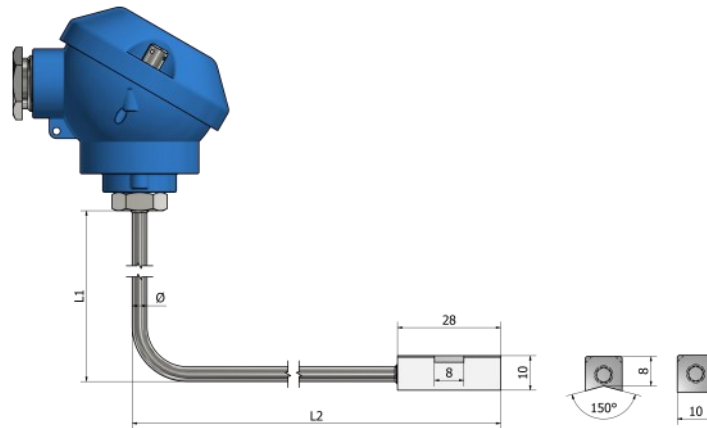
### How to order?

Choose the desired characteristics of your sensor by marking the checkboxes and by filling up the text. You can provide sketches, images, personal notes, special requirements or any important data. For additional questions and assistance, feel free to contact us.



# TH25 – Thermocouples with terminal head

## Contact block (surface mount)



\*Tube material **Stainless steel 316L**

### Ordering information

#### 1. Thermocouple:

- Type K     Type N     Type J     Type T     Type E  
 Type R     Type S     Type B     Other:

#### 2. Number of thermocouples:

- x 1     x 2

#### 3. Class:

- Class 1     Class 2

#### 4. Lengths L1 and L2 (mm):

L1 \_\_\_\_\_ L2 \_\_\_\_\_

#### 5. Diameter Ø (mm):

#### 6. Junction type:

- Ungrounded     Grounded

#### 7. Connection head: (see the part "Accessories")

- Type B     Type DAN     Type M     Type N  
 Type Ex     Type NS     Other:

#### 8. Mounting:

- Wires     Terminal block     Transmitter (°C):  
Specify temperature range

#### 9. Contact block material:

- Brass     Aluminum     Other:

#### 10. Contact block shape:



V-shape



Flat

#### Additional:

Application: \_\_\_\_\_

Operating temperature (min/max): \_\_\_\_\_

Type of environment: \_\_\_\_\_

Accessories:

See the part "Accessories"

Quantity: \_\_\_\_\_

Note: \_\_\_\_\_

### How to order?

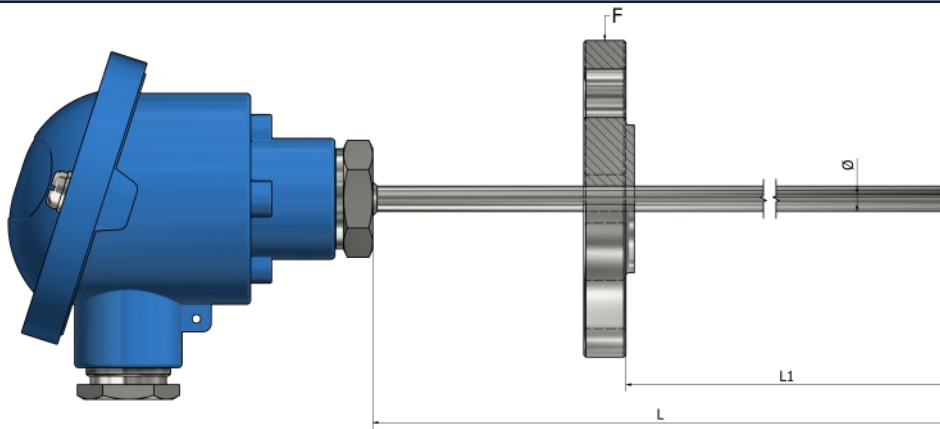


Choose the desired characteristics of your sensor by marking the checkboxes and by filling up the text. You can provide sketches, images, personal notes, special requirements or any important data. For additional questions and assistance, feel free to contact us.



# TH30 – Thermocouples with terminal head

## Flange sanitary mounting



\*Tube material **Stainless steel 316L**

### Ordering information

#### 1. Thermocouple:

- Type K     Type N     Type J     Type T     Type E  
 Type R     Type S     Type B     Other:

#### 2. Number of thermocouples:

- x 1     x 2

#### 3. Class:

- Class 1     Class 2

#### 4. Dimensions L and L1 (mm):

L \_\_\_\_\_ L1 \_\_\_\_\_

#### 5. Diameter Ø (mm):

#### 6. Junction type:

- Ungrounded     Grounded

#### 7. Connection head: (see the part "Accessories")

- Type B     Type DAN     Type M     Type N  
 Type Ex     Type NS     Other:

#### 8. Mounting:

- Wires     Terminal block     Transmitter (°C):  
Specify temperature range

#### 9. Flange sanitary mounting:

- DIN2527 (DN10 – PN6)     Other:

#### Additional:

Application:

Operating temperature (min/max):

Type of environment:

Accessories:  
See the part "Accessories"

Quantity:

Note:

### How to order?

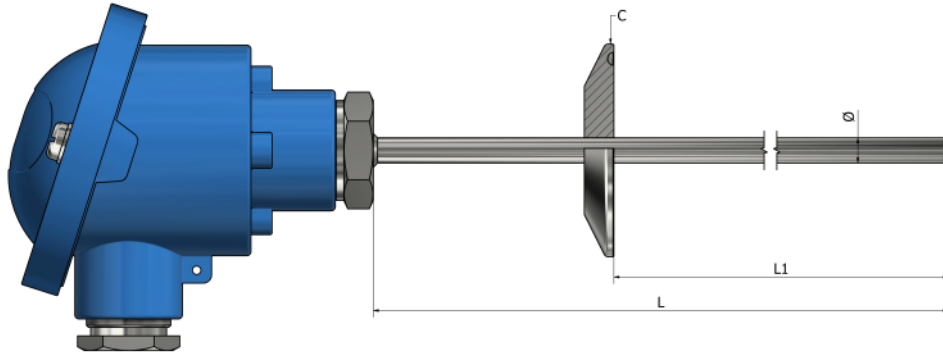
Choose the desired characteristics of your sensor by marking the checkboxes and by filling up the text. You can provide sketches, images, personal notes, special requirements or any important data. For additional questions and assistance, feel free to contact us.





# TH31 – Thermocouples with terminal head

## Tri-clamp sanitary mounting



\*Tube material **Stainless steel 316L**

### Ordering information

#### 1. Thermocouple:

- Type K     Type N     Type J     Type T     Type E  
 Type R     Type S     Type B     Other:

#### 2. Number of thermocouples:

- x 1     x 2

#### 3. Class:

- Class 1     Class 2

#### 4. Dimensions L and L1 (mm):

L \_\_\_\_\_ L1 \_\_\_\_\_

#### 5. Diameter Ø (mm):

#### 6. Junction type:

- Ungrounded     Grounded

#### 7. Connection head: (see the part "Accessories")

- Type B     Type DAN     Type M     Type N  
 Type Ex     Type NS     Other:

#### 8. Mounting:

- Wires     Terminal block     Transmitter (°C):  
Specify temperature range

#### 9. Tri-clamp sanitary mounting:

- DIN32676 / ISO 2852 (DN25)     Other:

#### Additional:

Application:

Operating temperature (min/max):

Type of environment:

Accessories:  
See the part "Accessories"

Quantity:

Note:

### How to order?

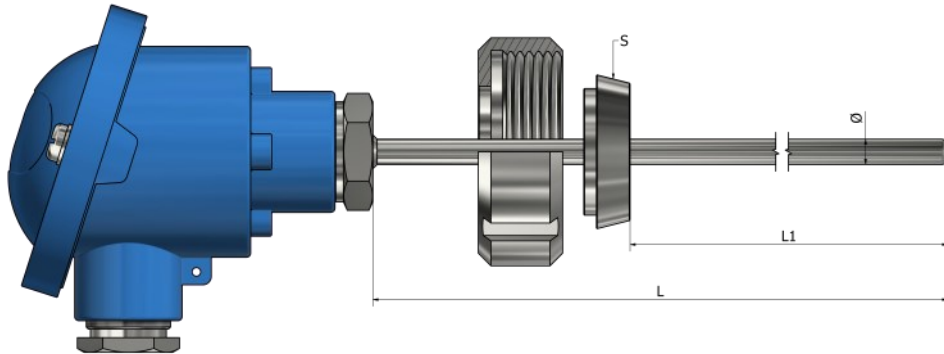


Choose the desired characteristics of your sensor by marking the checkboxes and by filling up the text. You can provide sketches, images, personal notes, special requirements or any important data. For additional questions and assistance, feel free to contact us.



# TH32 – Thermocouples with terminal head

## Disc DIN 11851 (screw-on) sanitary mounting



\*Tube material **Stainless steel 316L**

### Ordering information

#### 1. Thermocouple:

- Type K     Type N     Type J     Type T     Type E  
 Type R     Type S     Type B     Other:

#### 2. Number of thermocouples:

- x 1     x 2

#### 3. Class:

- Class 1     Class 2

#### 4. Dimensions L and L1 (mm):

L \_\_\_\_\_ L1 \_\_\_\_\_

#### 5. Diameter Ø (mm):

#### 6. Junction type:

- Ungrounded     Grounded

#### 7. Connection head: (see the part "Accessories")

- Type B     Type DAN     Type M     Type N  
 Type Ex     Type NS     Other:

#### 8. Mounting:

- Wires     Terminal block     Transmitter (°C):  
Specify temperature range

#### 9. Disc DIN 11851 sanitary mounting:

- DIN 11851 (DN20)     Other:

#### Additional:

Application:

Operating temperature (min/max):

Type of environment:

Accessories:  
See the part "Accessories"

Quantity:

Note:

### How to order?

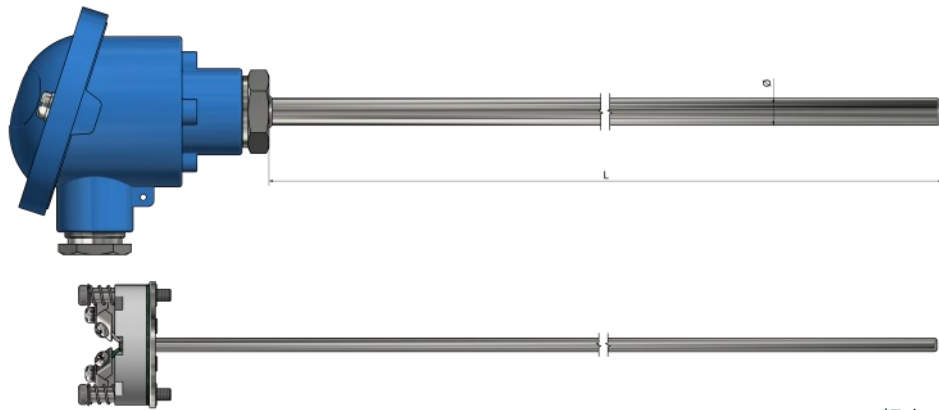


Choose the desired characteristics of your sensor by marking the checkboxes and by filling up the text. You can provide sketches, images, personal notes, special requirements or any important data. For additional questions and assistance, feel free to contact us.



# TH40 – Thermocouples with terminal head

## Exchangeable insert



\*Tube material **Stainless steel 316L**

### Ordering information

#### 1. Thermocouple:

- Type K     Type N     Type J     Type T     Type E  
 Type R     Type S     Type B     Other:

#### 2. Number of thermocouples:

- x 1     x 2

#### 3. Class:

- Class 1     Class 2

#### 4. Length L (mm):

#### 5. Diameter Ø (mm):

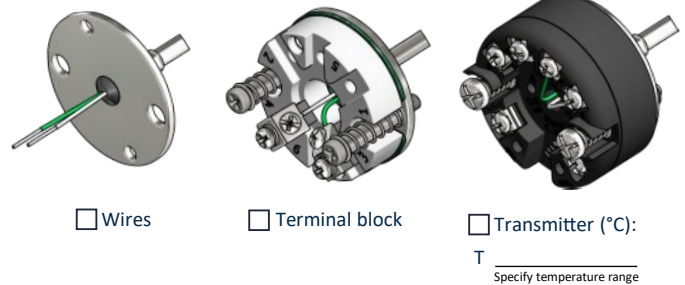
#### 6. Junction type:

- Ungrounded     Grounded

#### 7. Connection head: (see the part "Accessories")

- Type B     Type DAN     Type M     Type N  
 Type Ex     Type NS     Other:

#### 8. Type of exchangeable insert:



#### Additional:

Application:

Operating temperature (min/max):

Type of environment:

Accessories:  
See the part "Accessories"

Quantity:

Note:

### How to order?

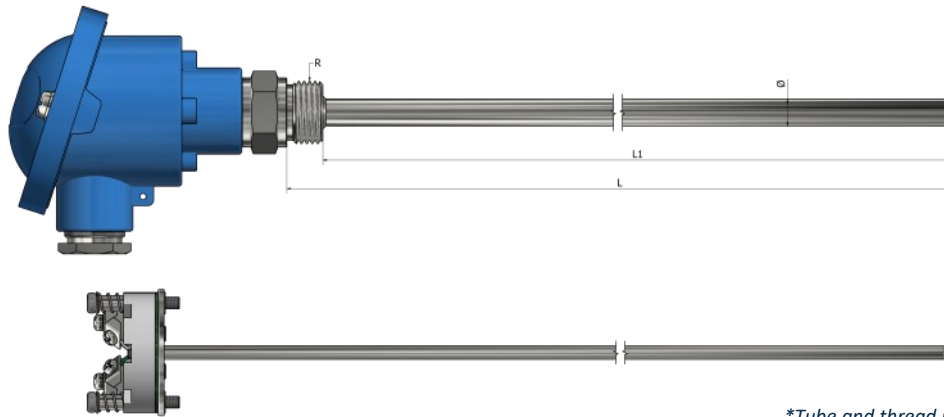


Choose the desired characteristics of your sensor by marking the checkboxes and by filling up the text. You can provide sketches, images, personal notes, special requirements or any important data. For additional questions and assistance, feel free to contact us.



# TH41 – Thermocouples with terminal head

## Exchangeable insert with fixed thread



\*Tube and thread material **Stainless steel 316L**

### Ordering information

#### 1. Thermocouple:

- Type K     Type N     Type J     Type T     Type E  
 Type R     Type S     Type B     Other:

#### 2. Number of thermocouples:

- x 1     x 2

#### 3. Class:

- Class 1     Class 2

#### 4. Length L or L1 (mm):

L \_\_\_\_\_ L1 \_\_\_\_\_

#### 5. Diameter Ø (mm):

#### 6. Junction type:

- Ungrounded     Grounded

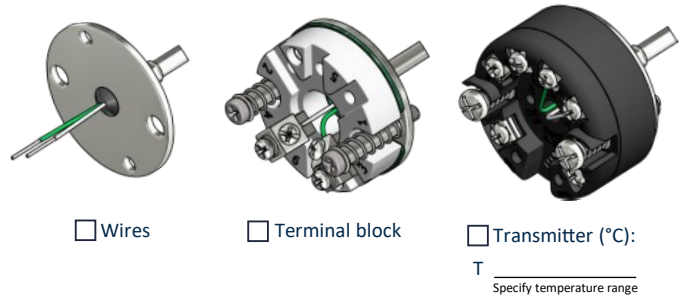
#### 7. Thread:

- 1/2" BSPP     1/4" BSPP     1/4" BSPT     M10  
 1/2" NPT     Other:

#### 8. Connection head: (see the part "Accessories")

- Type B     Type DAN     Type M     Type N  
 Type Ex     Type NS     Other:

#### 9. Type of exchangeable insert:



#### Additional:

Application:

Operating temperature (min/max):

Type of environment:

Accessories:  
See the part "Accessories"

Quantity:

Note:

### How to order?

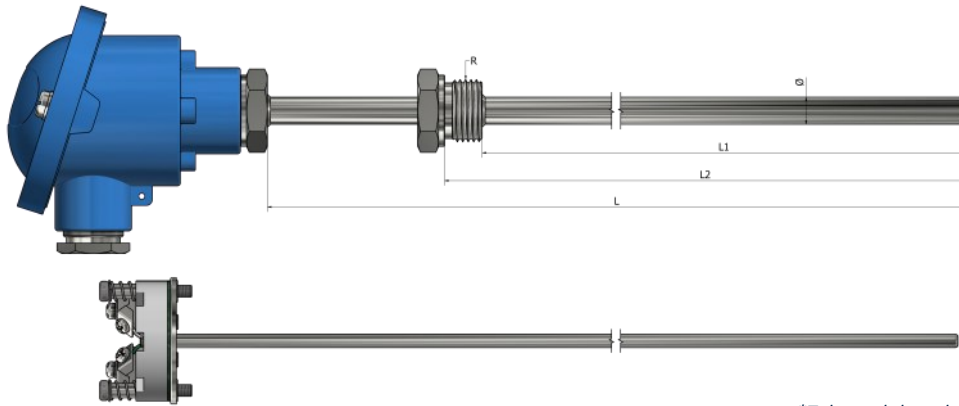
Choose the desired characteristics of your sensor by marking the checkboxes and by filling up the text. You can provide sketches, images, personal notes, special requirements or any important data. For additional questions and assistance, feel free to contact us.





# TH42 – Thermocouples with terminal head

## Exchangeable insert with fixed thread (offset)



\*Tube and thread material **Stainless steel 316L**

### Ordering information

#### 1. Thermocouple:

- Type K     Type N     Type J     Type T     Type E  
 Type R     Type S     Type B     Other:

#### 2. Number of thermocouples:

- x 1     x 2

#### 3. Class:

- Class 1     Class 2

#### 4. Lengths L, L1, L2 (mm):

L \_\_\_\_\_    L1 \_\_\_\_\_    L2 \_\_\_\_\_

#### 5. Diameter Ø (mm):

#### 6. Junction type:

- Ungrounded     Grounded

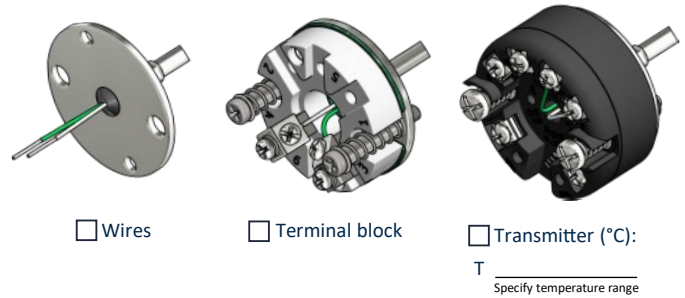
#### 7. Thread:

- 1/2" BSPP     1/4" BSPP     1/4" BSPT     M10  
 1/2" NPT     Other:

#### 8. Connection head: (see the part "Accessories")

- Type B     Type DAN     Type M     Type N  
 Type Ex     Type NS     Other:

#### 9. Type of exchangeable insert:



#### Additional:

Application:

Operating temperature (min/max):

Type of environment:

Accessories:  
See the part "Accessories"

Quantity:

Note:

### How to order?

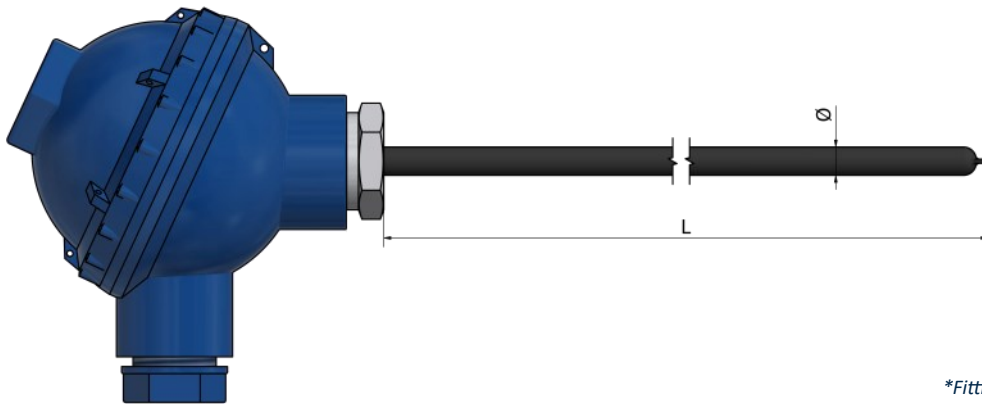
Choose the desired characteristics of your sensor by marking the checkboxes and by filling up the text. You can provide sketches, images, personal notes, special requirements or any important data. For additional questions and assistance, feel free to contact us.





# TH50 – Thermocouples with terminal head

## For aggressive environments



\*Fitting material **PTFE** (260°C)

\*Tube material **Stainless steel 316L** with **PTFE** protection (260°C)

### Ordering information

#### 1. Thermocouple:

- Type K     Type N     Type J     Type T     Type E  
 Type R     Type S     Type B     Other:

#### 2. Number of thermocouples:

- x 1     x 2

#### 3. Class:

- Class 1     Class 2

#### 4. Length L (mm):

#### 5. Diameter Ø (mm):

#### 6. Junction type:

- Ungrounded     Grounded

#### 7. Connection head: (see the part "Accessories")

- Type B     Type DAN     Type M     Type N  
 Type Ex     Type NS     Other:

#### 8. Mounting:

- Wires     Terminal block     Transmitter (°C):  
Specify temperature range

#### Additional:

Application:

Operating temperature (min/max):

Type of environment:

Accessories:  
See the part "Accessories"

Quantity:

Note:

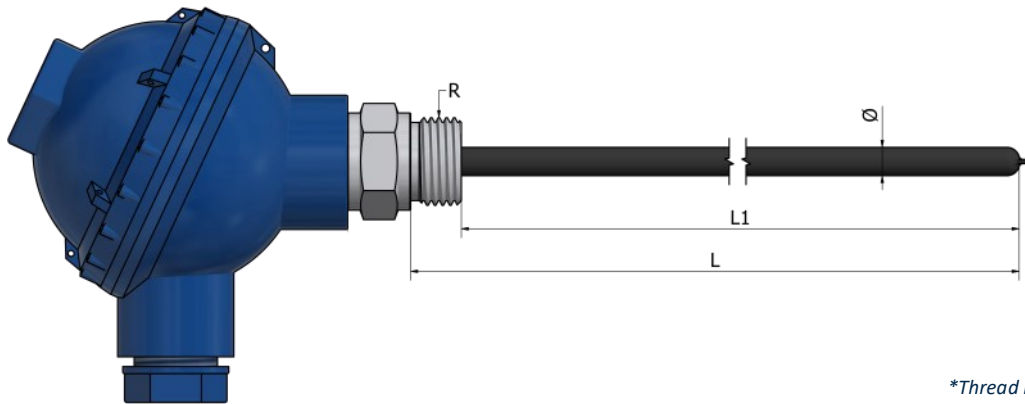
### How to order?

Choose the desired characteristics of your sensor by marking the checkboxes and by filling up the text. You can provide sketches, images, personal notes, special requirements or any important data. For additional questions and assistance, feel free to contact us.



# TH51 – Thermocouples with terminal head

## For aggressive environments with fixed thread



\*Thread material **PTFE** (260°C)  
 \*Tube material **Stainless steel 316L** with **PTFE** protection

### Ordering information

#### 1. Thermocouple:

- Type K     Type N     Type J     Type T     Type E  
 Type R     Type S     Type B     Other:

#### 2. Number of thermocouples:

- x 1     x 2

#### 3. Class:

- Class 1     Class 2

#### 4. Length L or L1 (mm):

L \_\_\_\_\_ L1 \_\_\_\_\_

#### 5. Diameter Ø (mm):

#### 6. Junction type:

- Ungrounded     Grounded

#### 7. Thread:

- 1/2" BSPP     1/4" BSPP     1/4" BSPT     M10  
 1/2" NPT     Other:

#### 8. Connection head: (see the part "Accessories")

- Type B     Type DAN     Type M     Type N  
 Type Ex     Type NS     Other:

#### 9. Mounting:

- Wires     Terminal block     Transmitter (°C):  
Specify temperature range

#### Additional:

Application:

Operating temperature (min/max):

Type of environment:

Accessories:  
See the part "Accessories"

Quantity:

Note:

### How to order?

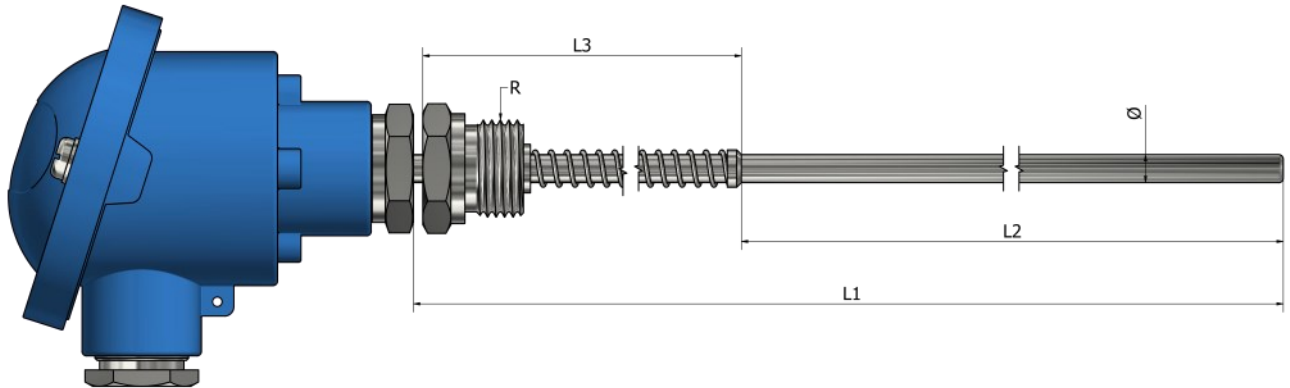
Choose the desired characteristics of your sensor by marking the checkboxes and by filling up the text. You can provide sketches, images, personal notes, special requirements or any important data. For additional questions and assistance, feel free to contact us.





# TH60 – Thermocouples with terminal head

## Spring loaded



\*Tube and thread material **Stainless steel 316L**

### Ordering information

#### 1. Thermocouple:

- Type K     Type N     Type J     Type T     Type E  
 Type R     Type S     Type B     Other:

#### 2. Number of thermocouples:

- x 1     x 2

#### 3. Class:

- Class 1     Class 2

#### 4. Lengths L1, L2, L3 (mm):

L1 \_\_\_\_\_ L2 \_\_\_\_\_ L3 \_\_\_\_\_

#### 5. Diameter Ø (mm):

#### 6. Junction type:

- Ungrounded     Grounded

#### 7. Thread:

- 1/2" BSPP     1/4" BSPP     1/4" BSPT     M10  
 1/2" NPT     Other:

#### 8. Connection head: (see the part "Accessories")

- Type B     Type DAN     Type M     Type N  
 Type Ex     Type NS     Other:

#### 9. Mounting:

- Wires     Terminal block     Transmitter (°C):  
Specify temperature range

#### Additional:

Application:

Operating temperature (min/max):

Type of environment:

Accessories:  
See the part "Accessories"

Quantity:

Note:

### How to order?

Choose the desired characteristics of your sensor by marking the checkboxes and by filling up the text. You can provide sketches, images, personal notes, special requirements or any important data. For additional questions and assistance, feel free to contact us.







# TI00 – Thermocouples with terminal head

## Disc plate insert



\*Tube material *Stainless steel 316L*

### Ordering information

#### 1. Thermocouple:

- Type K     Type N     Type J     Type T     Type E  
 Type R     Type S     Type B     Other:

#### 2. Number of thermocouples:

- x 1     x 2

#### 3. Class:

- Class 1     Class 2

#### 4. Sheath length L (mm):

#### 5. Diameter Ø (mm):

#### 6. Junction type:

- Ungrounded     Grounded

#### Additional:

Application:

Operating temperature (min/max):

Type of environment:

Accessories:  
See the part "Accessories"

Quantity:

Note:

### How to order?

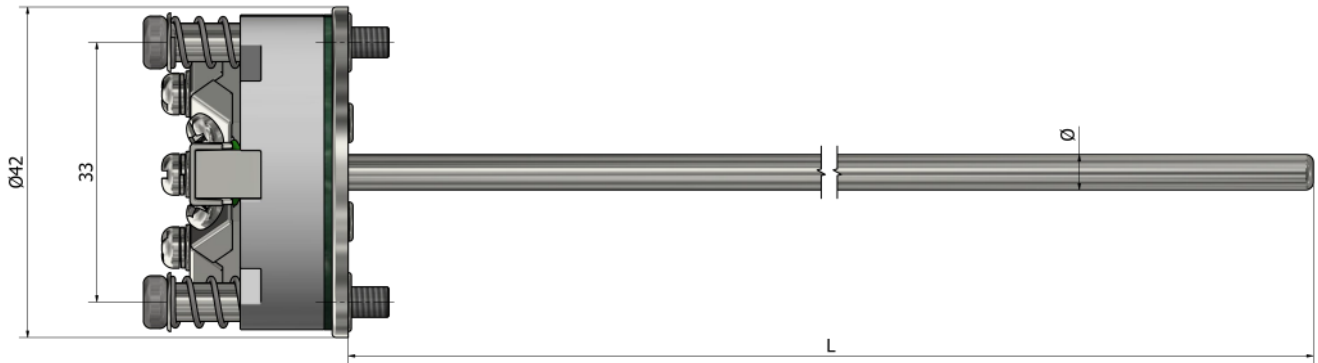


Choose the desired characteristics of your sensor by marking the checkboxes and by filling up the text. You can provide sketches, images, personal notes, special requirements or any important data. For additional questions and assistance, feel free to contact us.



# TI01 – Thermocouples with terminal head

## Insert with terminal block (spring loaded)



\*Tube material *Stainless steel 316L*

### Ordering information

#### 1. Thermocouple:

- Type K     Type N     Type J     Type T     Type E  
 Type R     Type S     Type B     Other:

#### 2. Number of thermocouples:

- x 1     x 2

#### 3. Class:

- Class 1     Class 2

#### 4. Sheath length L (mm):

#### 5. Diameter Ø (mm):

#### 6. Junction type:

- Ungrounded     Grounded

#### Additional:

Application:

Operating temperature (min/max):

Type of environment:

Accessories:  
See the part "Accessories"

Quantity:

Note:

### How to order?

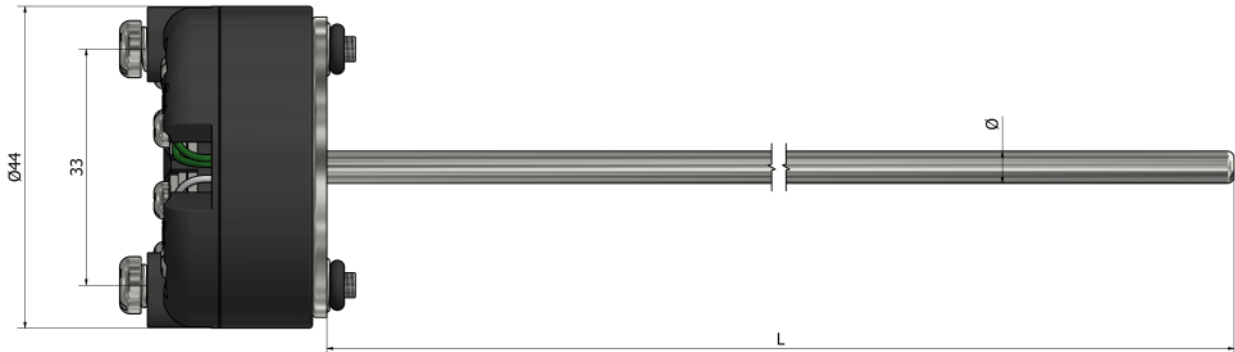


Choose the desired characteristics of your sensor by marking the checkboxes and by filling up the text. You can provide sketches, images, personal notes, special requirements or any important data. For additional questions and assistance, feel free to contact us.



# TI02 – Thermocouples with terminal head

## Insert with transmitter block (spring loaded)



\*Tube material *Stainless steel 316L*

### Ordering information

#### 1. Thermocouple:

- Type K     Type N     Type J     Type T     Type E  
 Type R     Type S     Type B     Other:

#### 2. Number of thermocouples:

- x 1     x 2

#### 3. Class:

- Class 1     Class 2

#### 4. Sheath length L (mm):

#### 5. Diameter Ø (mm):

#### 6. Junction type:

- Ungrounded     Grounded

#### 7. Transmitter (°C):

Specify temperature range

#### Additional:

Application:

Operating temperature (min/max):

Type of environment:

Accessories:

See the part "Accessories"

Quantity:

Note:

### How to order?



Choose the desired characteristics of your sensor by marking the checkboxes and by filling up the text. You can provide sketches, images, personal notes, special requirements or any important data. For additional questions and assistance, feel free to contact us.