

EuroSensors

Surface RTDs

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What are the characteristics of surface RTDs ?

Surface RTD probes detect surface temperature. The most important issue in surface temperature measurement is to keep measurement errors as small as possible. This is achieved by an appropriate design of the measuring head, so that only very little heat is extracted from the measuring point and the measurement error is negligible.

The perfectly adapted geometry increases the contact surface. At the same time, the low thermal mass of the measuring head ensures that comparatively fast response times can be achieved when measuring the surface temperature.

Different types of surface RTDs

Attaching a RTD to a surface for an accurate reading can be difficult. The sensor must respond quickly to avoid heat dissipation and remain attached under vibration or other stress.

We offer a number of constructions to suit every surface application.

Washer and ring RTDs can be attached to a stud welded to the surface or to an existing bolt on a section of machinery.

Bayonets are simply inserted through a drilled opening to a desired depth of a surface. The opening is then tapped to accept a number of mounting adapters. These adapters feature a locking pin allowing the RTDs cap to be installed with a twist.

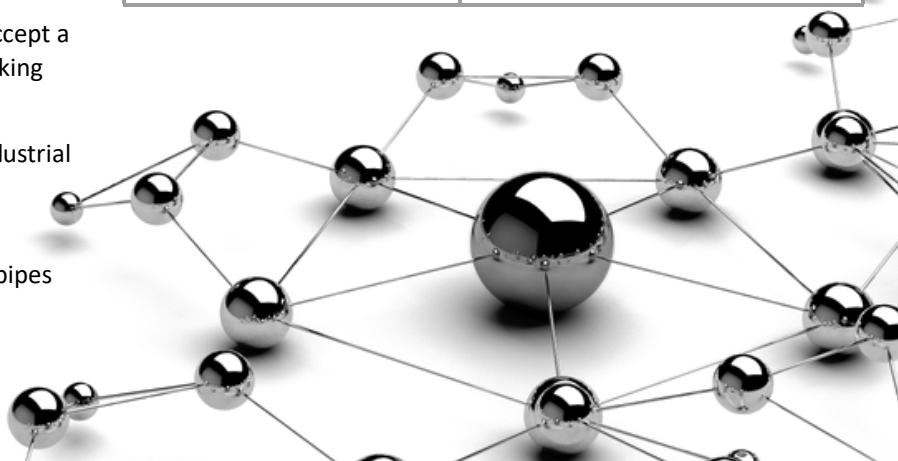
Weld pad RTDs which need not require the more rugged industrial construction can be tig welded or soldered and held with a number of clamping devices.

Pipe-clamp RTD is ideal for temperature measurements on pipes in laboratories and industrial applications.

Magnet RTDs are ideal for a temporary measurement to a magnetic surface or magnetic surface which doesn't allow any alteration.

Material conductivity

Material	Thermal conductivity W/(m.K)
Air	≈ 0,25
Stainless steel	≈ 14
Brass	≈ 109
Aluminum	≈ 205
Copper	≈ 385
Silver	≈ 406





What is an RTD sensor ?

An RTD (Resistance Temperature Detector) is a type of sensor used to measure temperature. RTDs are used for accurate, stable and reliable temperature measurements in generally high temperature ranges.

RTDs advantages

RTDs have several advantages over other types of temperature sensors:

High precision

RTDs have high temperature sensitivity, typically in the range of 0.1 to 0.2% per °C, allowing for accurate temperature measurement.

Long term stability

RTDs have long-term stability and longer life than thermistors, making them more reliable for long-term applications.

Wide operating temperature range

RTDs can operate in a temperature range of -200 to +850°C, making them suitable for many industrial applications.

Low ohmic resistance

RTDs have a low ohmic resistance compared to thermistors, which makes them easier to use with electronic circuits.

How does an RTD work ?

An RTD (variable temperature resistor) is a sensor that measures temperature using the variation of the electrical resistance of a conductive material. RTDs are usually made from platinum, gold or nickel. The operating principle of RTDs is based on Ohm's law of electrical resistance, which establishes a relationship between the electrical resistance of a conductor and its temperature. According to this law, the electrical resistance of a conductor generally increases when its temperature increases.

Differences between Pt-s and thermistors

There are several differences between Pt and thermistors, these differences make them more suitable for different applications.

- **Construction material**

The main difference between thermistors and Pt-s is the material they are made of. Thermistors are typically composed of mixed metal oxides, while Pt-s are made of pure metal such as nickel or platinum. The material difference leads to different properties in temperature measurement. Thermistors are more accurate than Pt-s, even in the wiring of the associated devices.

- **Wire length**

Thermistors have higher resistance values at lower temperatures which gives them higher resolution. Because the wire increases resistance, using very long wires can alter the reading and can cause inaccuracies. Because they have high inherent resistances, thermistors can be used with very long wire strands, while Pt-s are only recommended up to 3m without further measures. This can make a difference when selecting which temperature is best for your application depending on the required wire length.

- **Temperature range**

A thermistor is better for lower temperatures whereas Pt-s are more suitable for higher temperatures. Thermistors can only be used in a temperature range up to +250°C, while Pt-s can be used up to +600°C.

- **Type of application**

Thermistors are typically used in more commonplace devices such as freezers, air conditioners or water heaters. This is because of their high resolution in lower temperature ranges. Because of this, thermistors are also well suited for use in medical devices. Pt-s mainly used in industrial applications where higher temperatures can occur.

What are Pt-s and Thermistors ?

Thermistors and Pt-s are both types of temperature sensors that measure temperature by measuring electrical resistance. They are both widely used for temperature measurement in various industries and applications.



Surface RTDs - Technical information



What is a PT probe ?

A PT (Platinum Resistance Thermometer) is a type of temperature sensor that uses a temperature deflection resistor (RTD) to measure temperature. It is based on the principle that the electrical resistance of a conductive material increases when its temperature increases.

Understanding the naming of Pt100, PT500 and PT1000 sensors

First of all, "Pt" is the chemical symbol for platinum because platinum is the basic material for making the measuring element. The naming conventions of P100, PT500, and PT1000 sensors are closely tied to the nominal resistance values they exhibit at 0°C. P100 sensor has a nominal resistance of 100 Ω at 0°C, Pt500 sensor has a nominal resistance of 500 Ω at 0°C and Pt1000 sensor has a nominal resistance of 1000 Ω at 0°C.

Understanding the meaning behind these designations allows us to discern their specific characteristics and applications.

Whether you require a standard PT100 sensor or a higher resistance variant like PT500 or PT1000, these RTD sensors provide reliable and accurate temperature measurements in a wide range of industries and applications.

Pt-s wiring configurations

The cable has certain resistance which adds to the RTD resistance. Thus, the total resistance is the sum of the RTD resistance and the lead wire resistance. This causes more voltage drop across the RTD measurement system and as a result causes inaccuracy in measurement. This is the reason why we use 2 wire, 3 wire, and 4 wire RTD configurations.

Global cable insulation characteristics

	PVC	Silicone	Teflon	Fiberglass
Abrasion resistance	Very good	Fair	Good	Fair
Chemical resistance	Very good	Poor	Excellent	Good
Moisture resistance	Good	Good	Excellent	Poor
Fire resistance	Good	Good	Excellent	Excellent

Pt-s classes

Tolerances of Pt-s sensors can be tailored to customer specifics and thus manufactured to different tolerances. The higher the tolerance the smaller the margin of error relative to lower tolerances.

A system where these tolerances are classified is helpful for the end user and helps the interchangeability of these sensors. The IEC system is seen as the standard for the industry although there are other standards and other tolerance classes.



IEC Standard	DIN4370	Temperature Range °C	Tolerance Ω at 0°C	Tolerance °C
W0.03	1/10 DIN	-100 to 350	100±0.012 Ω	±0.03 °C
/	1/5 DIN	-100 to 350	100±0.024 Ω	±0.06 °C
W0.1	1/3 DIN	-100 to 350	100±0.04 Ω	±0.10 °C
W0.15	Class A	-100 to 450	100±0.06 Ω	±0.15 °C
W0.3	Class B	-196 to 660	100±0.12 Ω	±0.30 °C



RTD connectors

Due to the lack of standardization in RTD connectors, our company takes pride in its ability to produce a wide range of RTD connectors. We understand that different industries and applications have unique requirements when it comes to temperature measurement, and that includes the connectors used. With our expertise and advanced manufacturing capabilities, we have the flexibility to design and produce various types of RTD connectors.

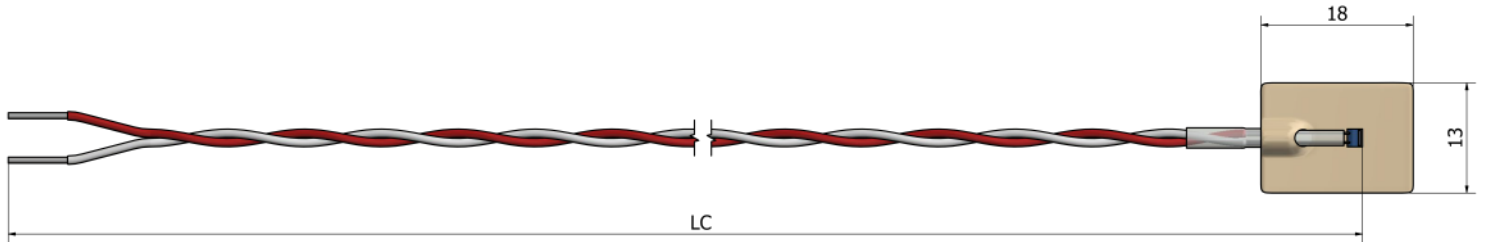


RTD standard connectors plugs and sockets are available in two sizes (miniature and standard).



PS00 – Surface RTDs

Adhesive tape



*Adhesive tape material **Fiberglass/PTFE**

Ordering information

1. Element type:

- Pt 100
 Pt 500
 Pt 1000
 Other:

2. Element class:

- A
 B
 Other:

3. Wiring configuration: (number of wires)

- 2
 3
 4

4. Cable prolongation:

- Teflon (260°C)
 Other:

5. Cable length LC (mm):

Additional:

Application:

Operating temperature (min/max):

Type of environment:

Accessories:
See the part "Accessories"

Quantity:

Note:

How to order?

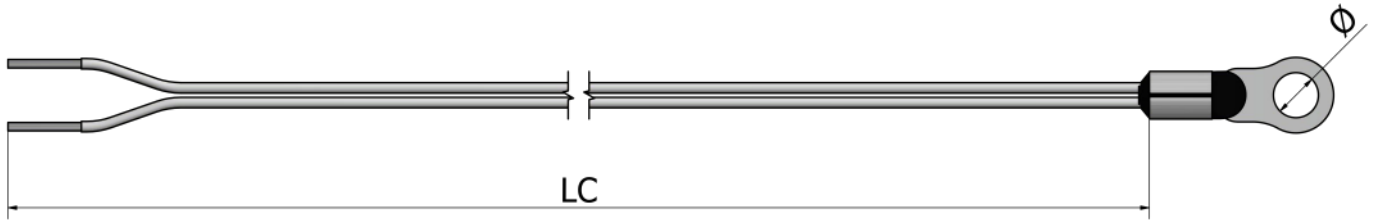


Choose the desired characteristics of your sensor by marking the checkboxes and by filling up the text. You can provide sketches, images, personal notes, special requirements or any important data. For additional questions and assistance, feel free to contact us.



PS01 – Surface RTDs

Washer mount



**Washer mount material Tinned copper*

Ordering information

1. Element type:

- Pt 100
 Pt 500
 Pt 1000
 Other:

2. Element class:

- A
 B
 Other:

3. Wiring configuration: (number of wires)

- 2
 3
 4

4. Cable prolongation:

- Teflon (260°C)
 Other:

5. Cable length LC (mm):

6. Hole size Ø (mm):

Additional:

Application:

Operating temperature (min/max):

Type of environment:

Accessories:
See the part "Accessories"

Quantity:

Note:

How to order?

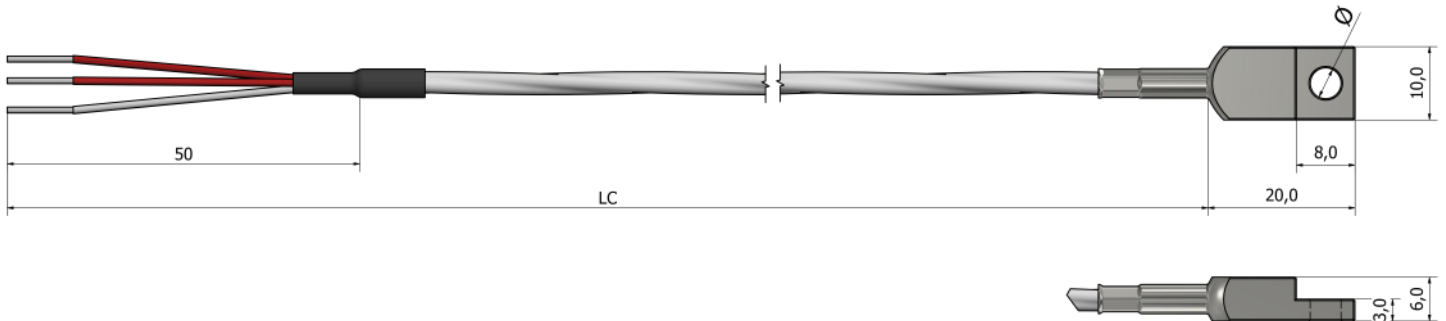


Choose the desired characteristics of your sensor by marking the checkboxes and by filling up the text. You can provide sketches, images, personal notes, special requirements or any important data. For additional questions and assistance, feel free to contact us.



PS02 – Surface RTDs

Reinforced washer mount



*Washer mount material **Stainless steel 316L**

Ordering information

1. Element type:

- Pt 100 Pt 500 Pt 1000
 Other:

2. Element class:

- A B Other:

3. Wiring configuration: (number of wires)

- 2 3 4

4. Cable prolongation:

- PVC (105°C) Silicone (180°C) Teflon (260°C)
 Fiberglass (400°C) Other:

5. Cable length LC (mm):

6. Hole diameter \varnothing (mm):

7. Crimp protection:

- Spring Heat shrink sleeve Without

Additional:

Application:

Operating temperature (min/max):

Type of environment:

Accessories:
See the part "Accessories"

Quantity:

Note:

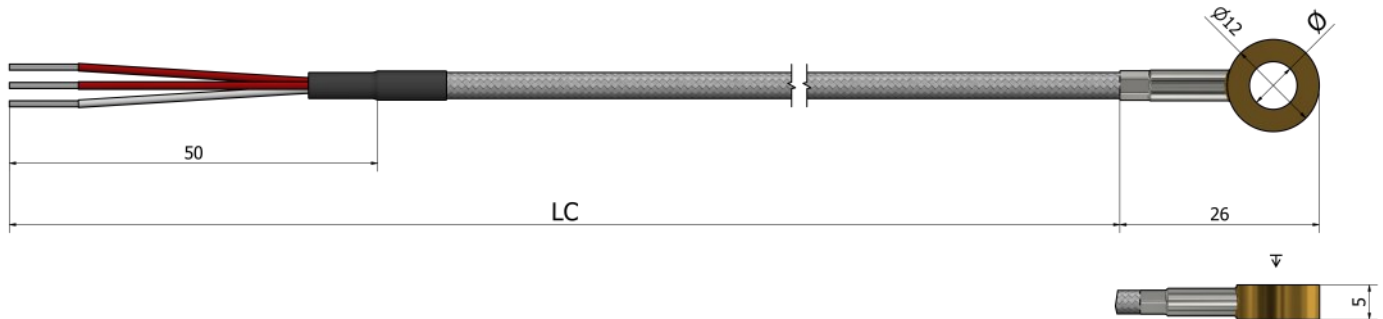
How to order?

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.



PS03 – Surface RTDs

Ring mount



Ordering information

1. Element type:

- Pt 100 Pt 500 Pt 1000
 Other:

2. Element class:

- A B Other:

3. Wiring configuration: (number of wires)

- 2 3 4

4. Cable prolongation:

- PVC (105°C) Silicone (180°C) Teflon (260°C)
 Fiberglass (400°C) Other:

5. Cable length LC (mm):

6. Ring material:

- Brass AISI 316L Other:

7. Ring size:

- M5 M6 Other:

8. Crimp protection:

- Spring Heat shrink sleeve Without

Additional:

Application:

Operating temperature (min/max):

Type of environment:

Accessories:
See the part "Accessories"

Quantity:

Note:

How to order?

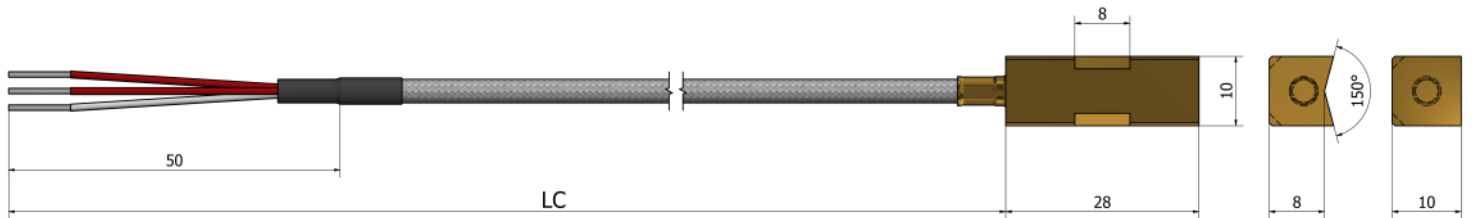


Choose the desired characteristics of your sensor by marking the checkboxes and by filling up the text. You can provide sketches, images, personal notes, special requirements or any important data. For additional questions and assistance, feel free to contact us.



PS05 – Surface RTDs

Contact block



*Contact block material **Brass or aluminum**

Ordering information

1. Element type:

- Pt 100
 Pt 500
 Pt 1000
 Other:

2. Element class:

- A
 B
 Other:

3. Wiring configuration: (number of wires)

- 2
 3
 4

4. Cable prolongation:

- PVC (105°C)
 Silicone (180°C)
 Teflon (260°C)
 Fiberglass (400°C)
 Other:

5. Cable length LC (mm):

6. Contact block material:

- Brass
 Aluminum
 Other:

7. Contact block shape:



V-shape



Flat

8. Crimp protection:

- Spring
 Heat shrink sleeve
 Without

Additional:

Application:

Operating temperature (min/max):

Type of environment:

Accessories:
See the part "Accessories"

Quantity:

Note:

How to order?

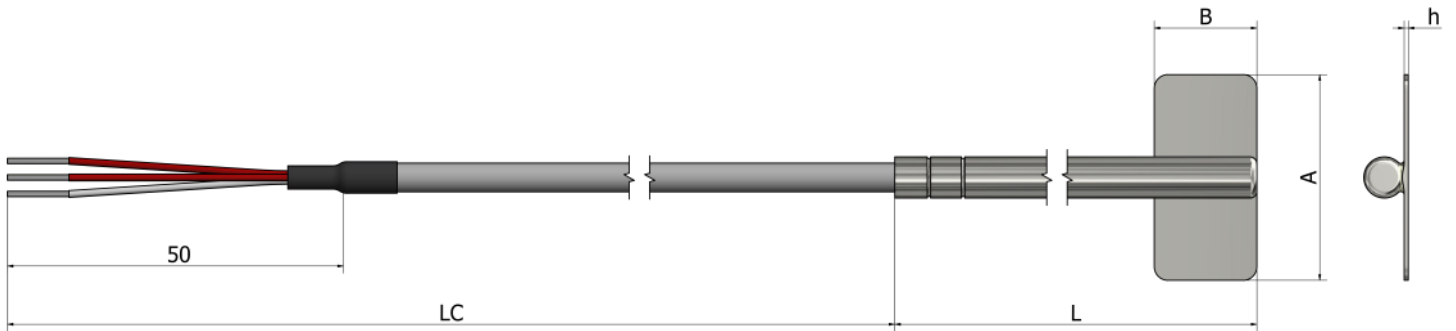
Choose the desired characteristics of your sensor by marking the checkboxes and by filling up the text. You can provide sketches, images, personal notes, special requirements or any important data. For additional questions and assistance, feel free to contact us.





PS10 – Surface RTDs

Weld pad



*Weld pad and tube material **Stainless steel 316L**

Ordering information

1. Element type:

- Pt 100
 Pt 500
 Pt 1000
 Other:

2. Element class:

- A
 B
 Other:

3. Wiring configuration: (number of wires)

- 2
 3
 4

4. Cable prolongation:

- PVC (105°C)
 Silicone (180°C)
 Teflon (260°C)
 Fiberglass (400°C)
 Other:

5. Cable length LC (mm):

6. Tube length L (mm):

7. Pad material: AISI 316L Other:

8. Pad dimensions A x B (mm):

- 15 x 10
 25 x 10
 30 x 10
 Other:

9. Pad thickness h (mm): 0,5 Other:

10. Crimp protection:

- Spring
 Heat shrink sleeve
 Without

Additional:

Application:

Operating temperature (min/max):

Type of environment:

Accessories:
See the part "Accessories"

Quantity:

Note:

How to order?

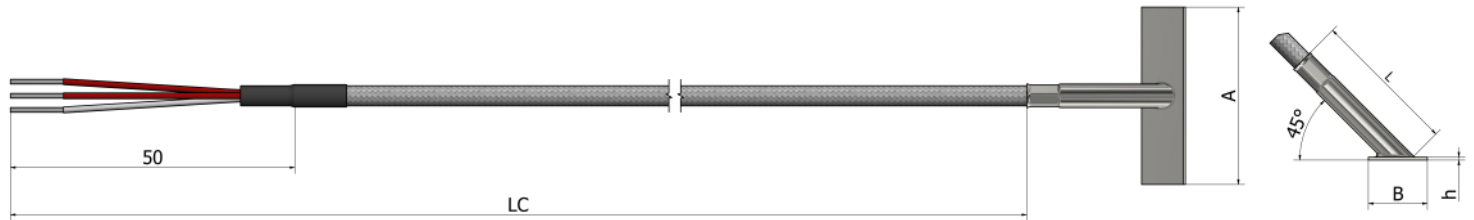
Choose the desired characteristics of your sensor by marking the checkboxes and by filling up the text. You can provide sketches, images, personal notes, special requirements or any important data. For additional questions and assistance, feel free to contact us.





PS11 – Surface RTDs

Weld pad (45° angle)



*Weld pad and tube material **Stainless steel 316L**

Ordering information

1. Element type:

- Pt 100 Pt 500 Pt 1000
 Other:

2. Element class:

- A B Other:

3. Wiring configuration: (number of wires)

- 2 3 4

4. Cable prolongation:

- PVC (105°C) Silicone (180°C) Teflon (260°C)
 Fiberglass (400°C) Other:

5. Cable length LC (mm):

6. Tube length L (mm):

7. Pad material: AISI 316L Other:

8. Pad dimensions A x B (mm):

- 15 x 10 25 x 10 30 x 10
 Other:

9. Pad thickness h (mm): 0,5 Other:

8. Crimp protection:

- Spring Heat shrink sleeve Without

Additional:

Application:

Operating temperature (min/max):

Type of environment:

Accessories:
See the part "Accessories"

Quantity:

Note:

How to order?

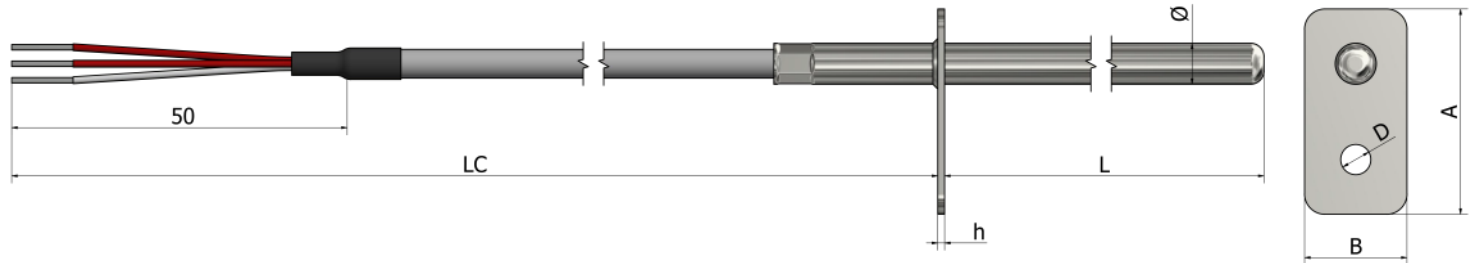


Choose the desired characteristics of your sensor by marking the checkboxes and by filling up the text. You can provide sketches, images, personal notes, special requirements or any important data. For additional questions and assistance, feel free to contact us.



PS12 – Surface RTDs

Weld pad (plug-in)



*Weld pad and tube material **Stainless steel 316L**

Ordering information

1. Element type:

- Pt 100 Pt 500 Pt 1000
 Other:

2. Element class:

- A B Other:

3. Wiring configuration: (number of wires)

- 2 3 4

4. Cable prolongation:

- PVC (105°C) Silicone (180°C) Teflon (260°C)
 Fiberglass (400°C) Other:

5. Cable length LC (mm):

6. Pad material: AISI 316L Other:

7. Pad dimensions A x B (mm):

- 15 x 10 25 x 10 30 x 10
 Other:

8. Pad thickness h (mm): 0,5 Other:

9. Hole size Ø D (mm):

10. Insertion diameter Ø (mm):

- 4 5 6 Other:

11. Insertion depth L (mm):

12. Crimp protection:

- Spring Heat shrink sleeve Without

Additional:

Application:

Operating temperature (min/max):

Type of environment:

Accessories:
See the part "Accessories"

Quantity:

Note:

How to order?

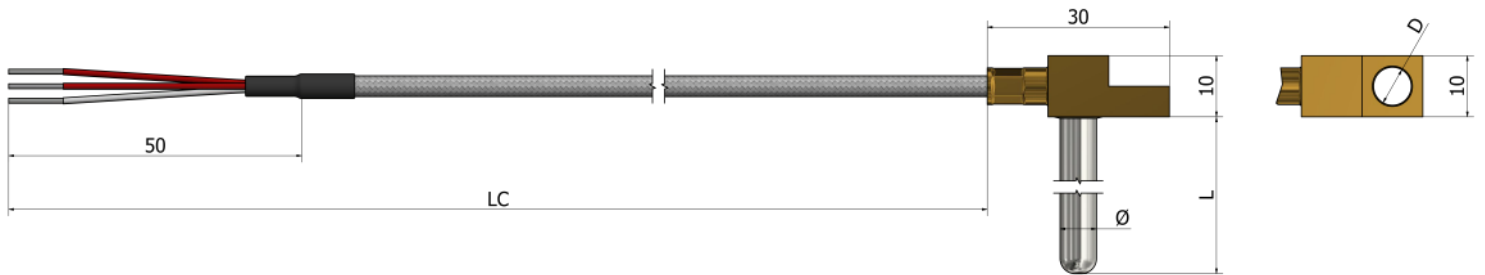


Choose the desired characteristics of your sensor by marking the checkboxes and by filling up the text. You can provide sketches, images, personal notes, special requirements or any important data. For additional questions and assistance, feel free to contact us.



PS20 – Surface RTDs

Angle / plug-in



*Mounting block material **Brass** *Tube material **Stainless steel 316L**

Ordering information

1. Element type:

- Pt 100 Pt 500 Pt 1000
 Other:

2. Element class:

- A B Other:

3. Wiring configuration: (number of wires)

- 2 3 4

4. Cable prolongation:

- PVC (105°C) Silicone (180°C) Teflon (260°C)
 Fiberglass (400°C) Other:

5. Cable length LC (mm):

6. Hole size Ø D (mm):

7. Insertion diameter Ø (mm):

- 4 5 6 Other:

8. Insertion depth L (mm):

9. Crimp protection:

- Spring Heat shrink sleeve Without

Additional:

Application:

Operating temperature (min/max):

Type of environment:

Accessories:
See the part "Accessories"

Quantity:

Note:

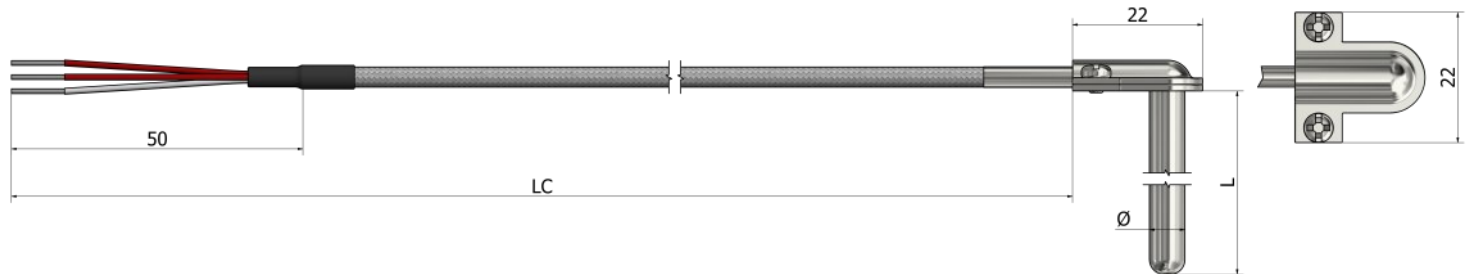
How to order?

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.



PS21 – Surface RTDs

Angle / plug-in (clamp)



*Clamp material **Stainless steel 316L** *Tube material **Stainless steel 316L**

Ordering information

1. Element type:

- Pt 100 Pt 500 Pt 1000
 Other:

2. Element class:

- A B Other:

3. Wiring configuration: (number of wires)

- 2 3 4

4. Cable prolongation:

- PVC (105°C) Silicone (180°C) Teflon (260°C)
 Fiberglass (400°C) Other:

5. Cable length LC (mm):

6. Insertion diameter Ø (mm):

- 4 5 6 Other:

7. Insertion depth L (mm):

8. Crimp protection:

- Spring Heat shrink sleeve Without

Additional:

Application:

Operating temperature (min/max):

Type of environment:

Accessories:
See the part "Accessories"

Quantity:

Note:

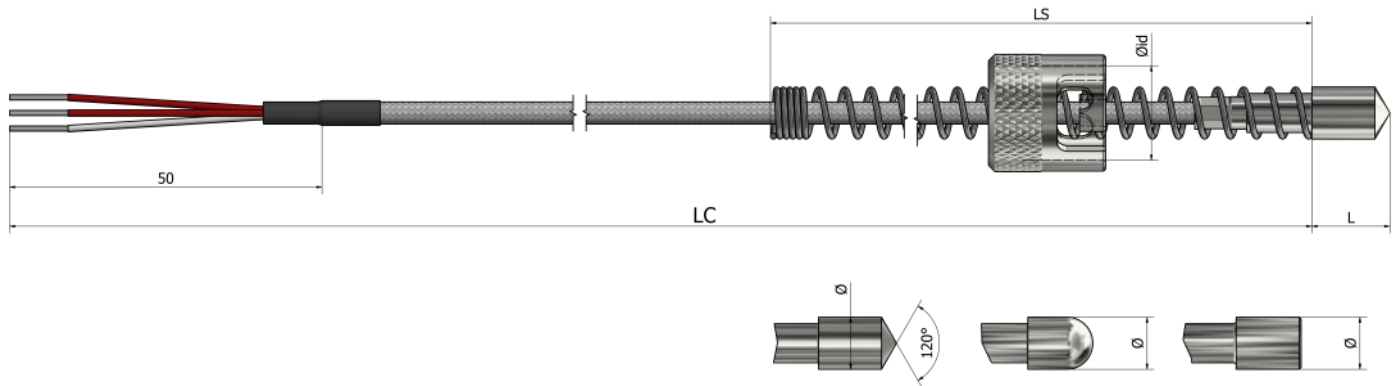
How to order?



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.



PS30 – Surface RTDs Bayonet



Ordering information

1. Element type:

- Pt 100 Pt 500 Pt 1000
 Other:

2. Element class:

- A B Other:

3. Wiring configuration: (number of wires)

- 2 3 4

4. Cable prolongation:

- Fiberglass (400°C) Other:

5. Cable length LC (mm):

6. Dimensions $\varnothing \times L$ (mm):

- 5 x 12 6 x 10 8 x 10 Other:

7. Sheath tip: (material *Stainless steel 316L*)



- Round Conical Flat

8. Bayonet cap \varnothing_{id} (mm): (material *Nickel-plated brass*)

- 10,5 12,5 14,5 Other:

9. Spring length LS (mm):

Additional:

Application:

Operating temperature (min/max):

Type of environment:

Accessories:
See the part "Accessories"

Quantity:

Note:

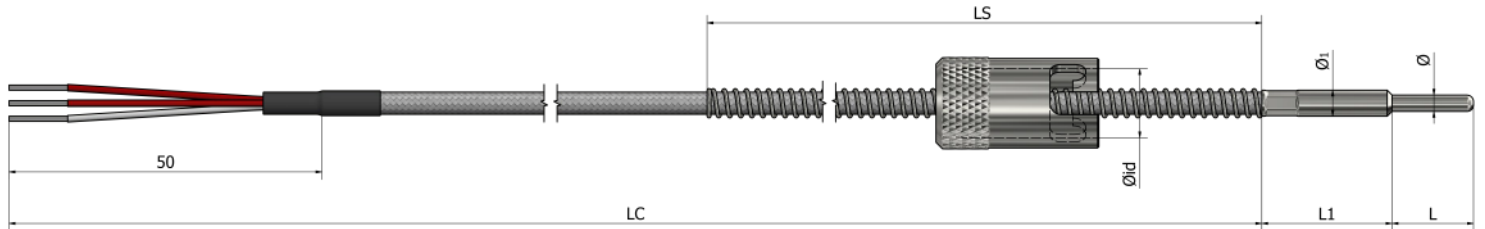
How to order?

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.



PS31 – Surface RTDs

Bayonet with reduced tip



*Tube and tip material **Stainless steel 316L**

Ordering information

1. Element type:

- Pt 100 Pt 500 Pt 1000
 Other:

2. Element class:

- A B Other:

3. Wiring configuration: (number of wires)

- 2 3 4

4. Cable prolongation:

- Fiberglass (400°C) Other:

5. Cable length LC (mm):

6. Dimensions L and Ø (mm):

L _____ Ø _____

7. Dimensions L1 and Ø1 (mm):

L1 _____ Ø1 _____

8. Bayonet cap Øid (mm): (material *Nickel-plated brass*)

- 10,5 12,5 14,5 Other:

9. Spring length LS (mm):

Additional:

Application:

Operating temperature (min/max):

Type of environment:

Accessories:
See the part "Accessories"

Quantity:

Note:

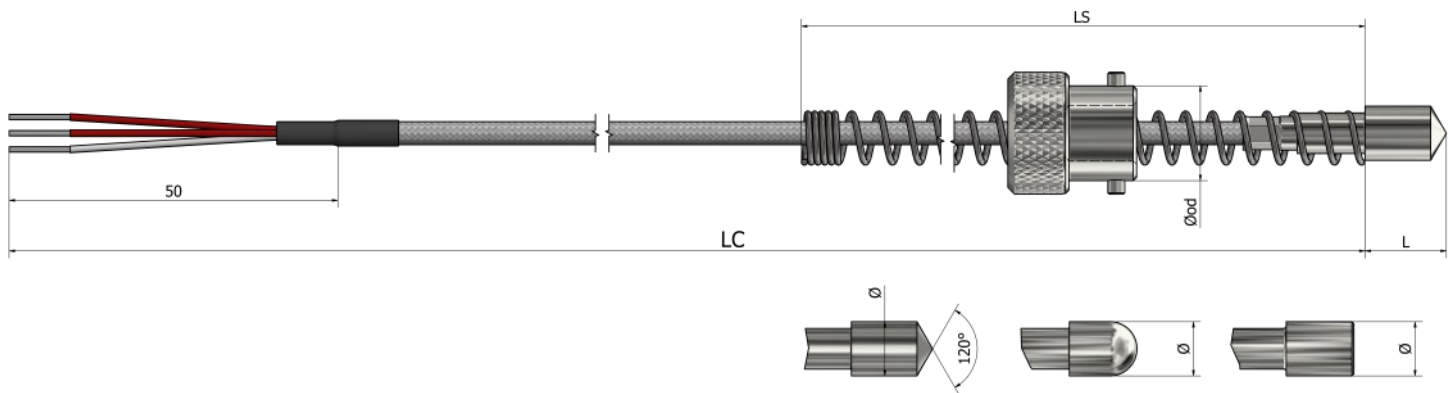
How to order?

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.



PS33 – Surface RTDs

Bayonet (reverse)



Ordering information

1. Element type:

- Pt 100 Pt 500 Pt 1000
 Other:

2. Element class:

- A B Other:

3. Wiring configuration: (number of wires)

- 2 3 4

4. Cable prolongation:

- Fiberglass (400°C) Other:

5. Cable length LC (mm):

6. Dimensions $\varnothing \times L$ (mm):

- 5 x 12 6 x 10 8 x 10 Other:

7. Sheath tip: (material *Stainless steel 316L*)



- Round Conical Flat

8. Bayonet adapter \varnothing_{od} (mm): (material *Nickel-plated brass*)

- 10,5 12,5 14,5 Other:

9. Spring length LS (mm):

Additional:

Application:

Operating temperature (min/max):

Type of environment:

Accessories:
See the part "Accessories"

Quantity:

Note:

How to order?

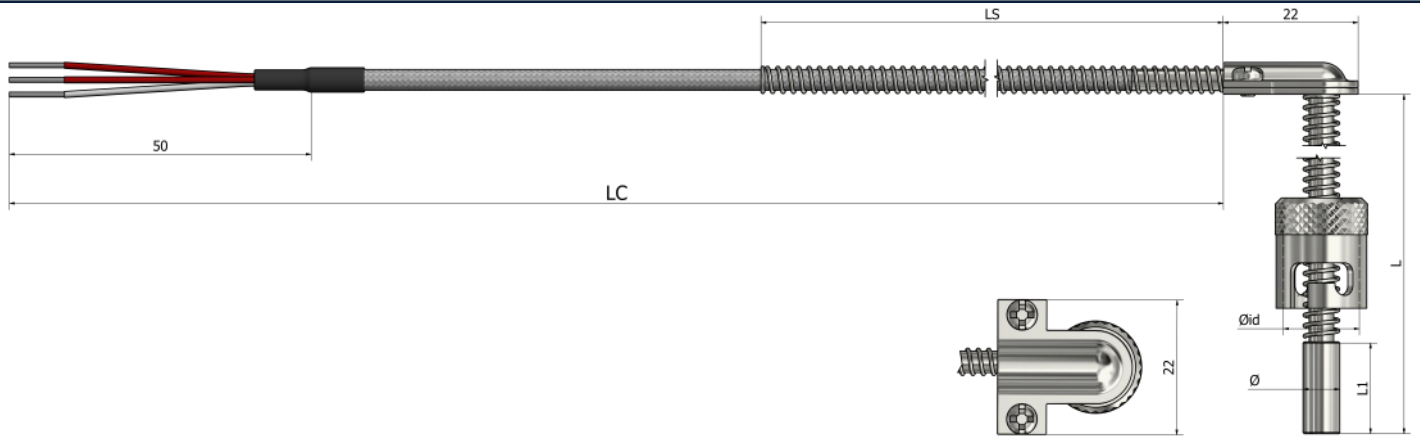


Choose the desired characteristics of your sensor by marking the checkboxes and by filling up the text. You can provide sketches, images, personal notes, special requirements or any important data. For additional questions and assistance, feel free to contact us.



PS34 – Surface RTDs

Bayonet with clamp (90° angle)



Ordering information

1. Element type:

- Pt 100 Pt 500 Pt 1000
 Other:

2. Element class:

- A B Other:

3. Wiring configuration: (number of wires)

- 2 3 4

4. Cable prolongation:

- Fiberglass (400°C) Other:

5. Cable length LC (mm):

6. Cable length L (mm):

7. Dimensions \varnothing x L1 (mm):

- 5 x 12 6 x 10 8 x 10 Other:

8. Sheath tip: (material *Stainless steel 316L*)



- Round Conical Flat

9. Bayonet cap \varnothing_{id} (mm): (material *Nickel-plated brass*)

- 10,5 12,5 14,5 Other:

10. Spring length LS (mm):

Additional:

Application:

Operating temperature (min/max):

Type of environment:

Accessories:
See the part "Accessories"

Quantity:

Note:

How to order?

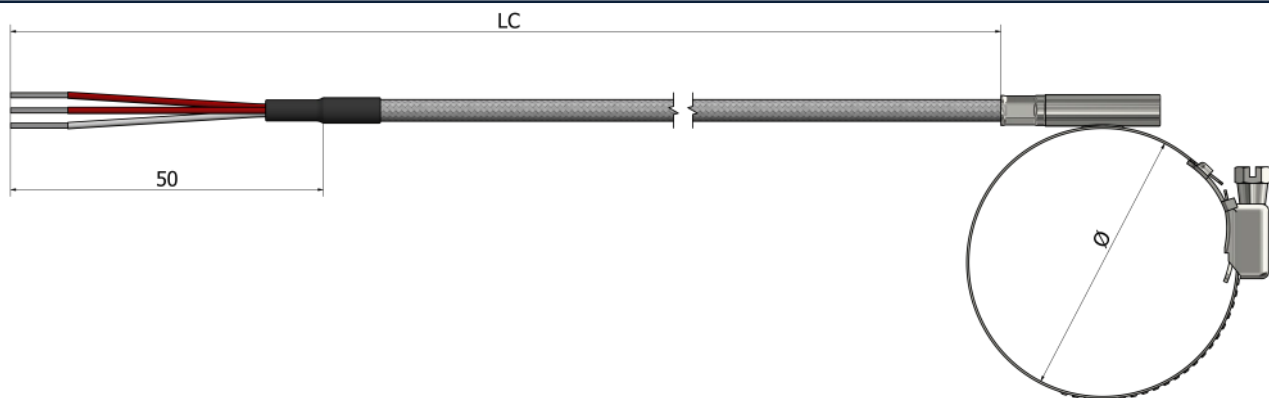


Choose the desired characteristics of your sensor by marking the checkboxes and by filling up the text. You can provide sketches, images, personal notes, special requirements or any important data. For additional questions and assistance, feel free to contact us.



PS41 – Surface RTDs

Pipe-Clamp (type 1)



*Tube and clamp material **Stainless steel 316L**

Ordering information

1. Element type:

- Pt 100 Pt 500 Pt 1000
 Other:

2. Element class:

- A B Other:

3. Wiring configuration: (number of wires)

- 2 3 4

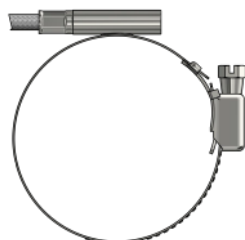
4. Cable prolongation:

- PVC (105°C) Silicone (180°C) Teflon (260°C)
 Fiberglass (400°C) Other:

5. Cable length LC (mm):

6. Clamp size Ø (mm):

7. Clamp direction:



V1



V2

8. Crimp protection:

- Spring Heat shrink sleeve Without

Additional:

Application:

Operating temperature (min/max):

Type of environment:

Accessories:
See the part "Accessories"

Quantity:

Note:

How to order?

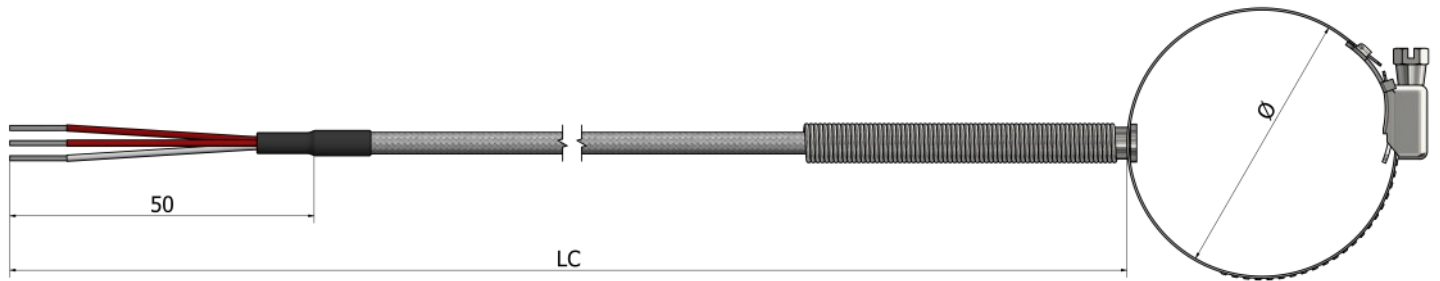
Choose the desired characteristics of your sensor by marking the checkboxes and by filling up the text. You can provide sketches, images, personal notes, special requirements or any important data. For additional questions and assistance, feel free to contact us.





PS42 – Surface RTDs

Pipe-Clamp (type 2)



*Tube and clamp material **Stainless steel 316L**

Ordering information

1. Element type:

- Pt 100 Pt 500 Pt 1000
 Other:

2. Element class:

- A B Other:

3. Wiring configuration: (number of wires)

- 2 3 4

4. Cable prolongation:

- PVC (105°C) Silicone (180°C) Teflon (260°C)
 Fiberglass (400°C) Other:

5. Cable length LC (mm):

6. Clamp size Ø (mm):

7. Crimp protection:

- Spring Heat shrink sleeve Without

Additional:

Application:

Operating temperature (min/max):

Type of environment:

Accessories:
See the part "Accessories"

Quantity:

Note:

How to order?

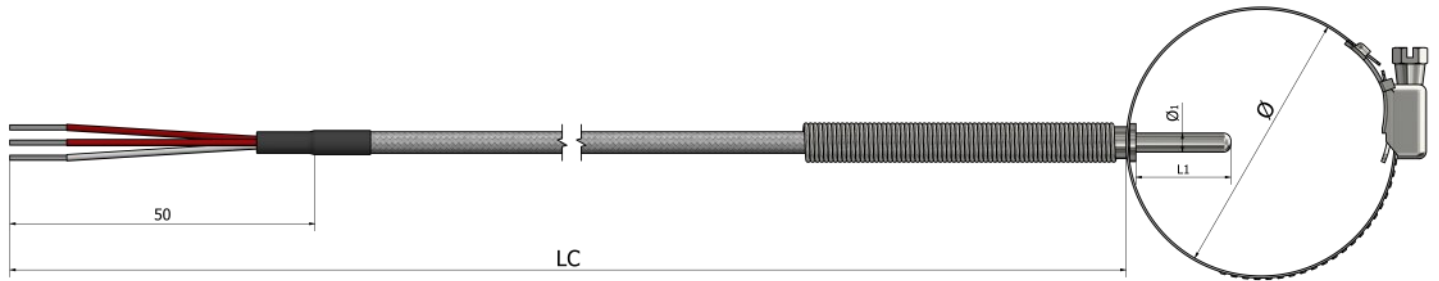


Choose the desired characteristics of your sensor by marking the checkboxes and by filling up the text. You can provide sketches, images, personal notes, special requirements or any important data. For additional questions and assistance, feel free to contact us.



PS43 – Surface RTDs

Pipe-Clamp (type 3)



*Clamp material **Stainless steel 316L** *Tube material **Stainless steel 316L**

Ordering information

1. Element type:

- Pt 100 Pt 500 Pt 1000
 Other:

2. Element class:

- A B Other:

3. Wiring configuration: (number of wires)

- 2 3 4

4. Cable prolongation:

- PVC (105°C) Silicone (180°C) Teflon (260°C)
 Fiberglass (400°C) Other:

5. Cable length LC (mm):

6. Clamp size Ø (mm):

7. Insertion diameter Ø1 (mm):

- 4 5 6 Other:

8. Insertion depth L1 (mm):

9. Crimp protection:

- Spring Heat shrink sleeve Without

Additional:

Application:

Operating temperature (min/max):

Type of environment:

Accessories:
See the part "Accessories"

Quantity:

Note:

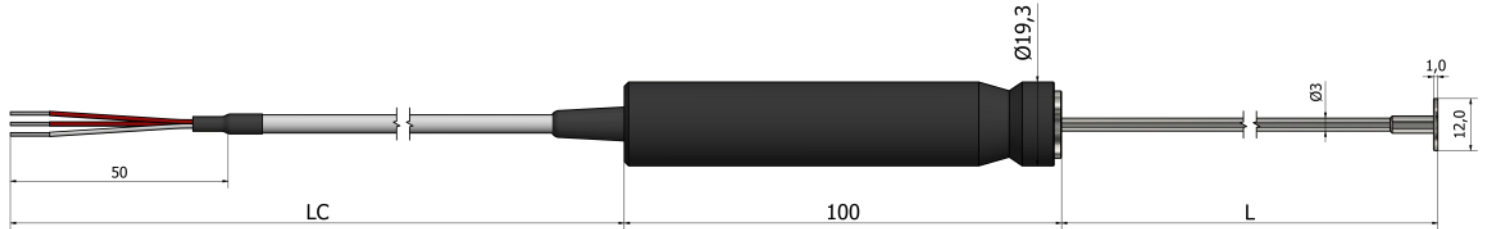
How to order?



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.



PS50 – Surface RTDs Handheld



*Handle material **Plastic** *Tube material **Stainless steel 316L**

Ordering information

1. Element type:

- Pt 100 Pt 500 Pt 1000
 Other:

2. Element class:

- A B Other:

3. Wiring configuration: (number of wires)

- 2 3 4

4. Cable prolongation:

- PVC (105°C) Silicone (180°C) Teflon (260°C)
 Fiberglass (400°C) Other:

5. Cable length LC (mm):

6. Length L (mm):

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.



PS60 – Surface RTDs

Spring loaded magnet



Ordering information

1. Element type:

- Pt 100 Pt 500 Pt 1000
 Other:

2. Element class:

- A B Other:

3. Wiring configuration: (number of wires)

- 2 3 4

4. Cable prolongation:

- PVC (105°C) Silicone (180°C) Teflon (260°C)
 Fiberglass (400°C) Other:

5. Cable length LC (mm):

6. Crimp protection:

- Spring Heat shrink sleeve Without

Additional:

Application:

Operating temperature (min/max):

Type of environment:

Accessories:
See the part "Accessories"

Quantity:

Note:

How to order?

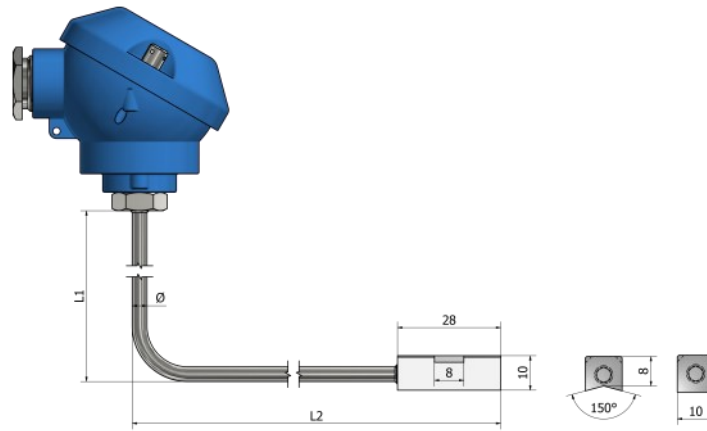


Choose the desired characteristics of your sensor by marking the checkboxes and by filling up the text. You can provide sketches, images, personal notes, special requirements or any important data. For additional questions and assistance, feel free to contact us.



PH25 – Surface RTDs

Contact block (surface mount) with terminal head



*Tube material **Stainless steel 316L**

Ordering information

1. Element type:

- Pt 100 Pt 500 Pt 1000
 Other:

2. Element class:

- A B Other:

3. Wiring configuration: (number of wires)

- 2 3 4

4. Lengths L1 and L2 (mm):

L1 _____ L2 _____

5. Diameter Ø (mm):

6. Connection head: (see the part "Accessories")

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

7. Mounting:

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

8. Contact block material:

- Brass Aluminum Other:

9. Contact block shape:



V-shape



Flat

Additional:

Application: _____

Operating temperature (min/max): _____

Type of environment: _____

Accessories:
See the part "Accessories"

Quantity: _____

Note: _____

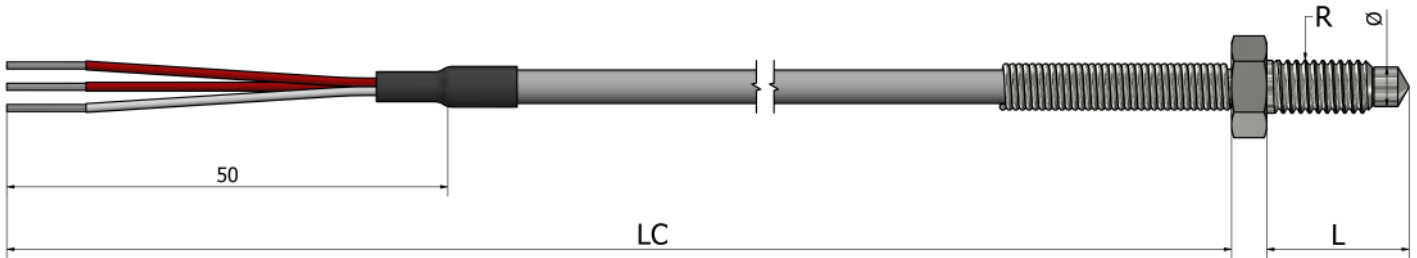
How to order?



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.



PR20 – Surface RTDs Nozzle



*Nozzle and thread material *Stainless steel (304 / 304L / 316 / 316L)*

Ordering information

1. Element type:

- Pt 100 Pt 500 Pt 1000
 Other:

2. Element class:

- A B Other:

3. Wiring configuration: (number of wires)

- 2 3 4

4. Length L (mm):

5. Diameter Ø (mm):

6. Cable prolongation:

- PVC (105°C) Silicone (180°C) Teflon (260°C)
 Fiberglass (400°C) Other:

7. Cable length LC (mm):

8. Crimp protection:

- Spring Heat shrink sleeve Without

9. Thread:

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

Additional:

Application:

Operating temperature (min/max):

Type of environment:

Accessories:
See the part "Accessories"

Quantity:

Note:

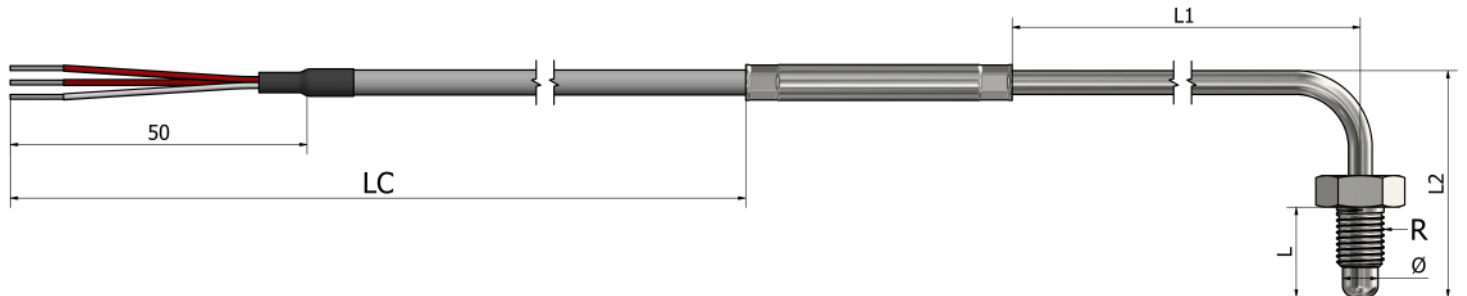
How to order?

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.



PR21 – Surface RTDs

Nozzle (90° bend)



*Tube material **Stainless steel 316L** *Nozzle and thread material **Stainless steel (304 / 304L / 316 / 316L)**

Ordering information

1. Element type:

- Pt 100 Pt 500 Pt 1000
 Other:

2. Element class:

- A B Other:

3. Wiring configuration: (number of wires)

- 2 3 4

4. Lengths (mm):

L1 _____ L2 _____

5. Length L (mm):

6. Diameter Ø (mm):

7. Cable prolongation:

- PVC (105°C) Silicone (180°C) Teflon (260°C)
 Fiberglass (400°C) Other:

8. Cable length LC (mm):

9. Crimp protection:

- Spring Heat shrink sleeve Without

10. Thread:

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

Additional:

Application:

Operating temperature (min/max):

Type of environment:

Accessories:
See the part "Accessories"

Quantity:

Note:

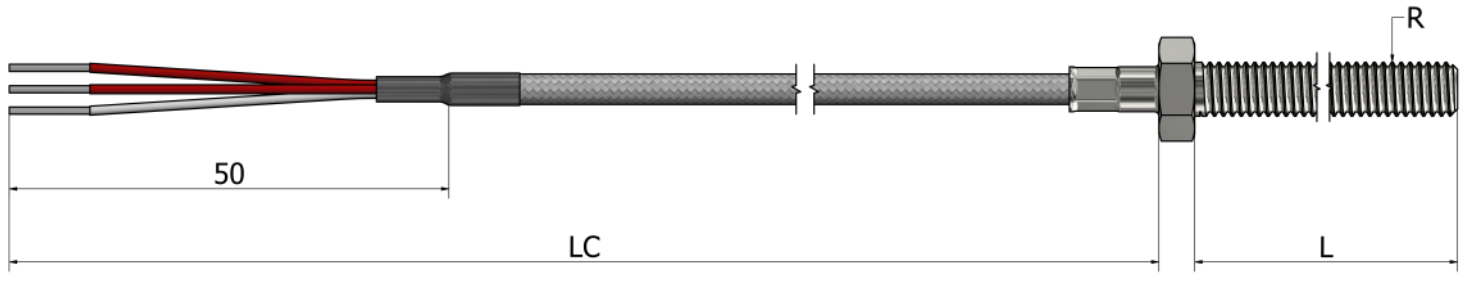
How to order?



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.



PR22 – Surface RTDs Bolt



**Bolt material Stainless steel (304 / 304L / 316 / 316L)*

Ordering information

1. Element type:
 Pt 100 Pt 500 Pt 1000
 Other:

2. Element class:
 A B Other:

3. Wiring configuration: (number of wires)
 2 3 4

4. Length L (mm):

5. Cable prolongation:
 PVC (105°C) Silicone (180°C) Teflon (260°C)
 Fiberglass (400°C) Other:

6. Cable length LC (mm):

7. Crimp protection:
 Spring Heat shrink sleeve Without

8. Thread:
 1/2" BSPP 1/4" BSPP 1/4" BSPT M10
 1/2" NPT 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.