

Type 03001



Measuring resistances Pt 100 winding

- 1 x Pt 100
- 2 x Pt 100

Characteristics

2-wire connection
mounting into protection well

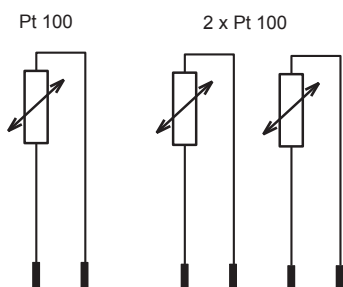
Description - use

The measuring resistances are designed for temperature measuring. The signal can be evaluated for temperature measuring registration or signalisation. The measuring resistances are formed by ceramic tube with fixed Pt spiral with wires from Pd-Pt.

Technical data

Measuring range: -200 to +650°C (tolerance class B)
-150 to +450°C (tolerance class A)
Measuring current: to 1mA
Tolerance class: A, B according to ČSN EN 60751

Measuring resistance connection

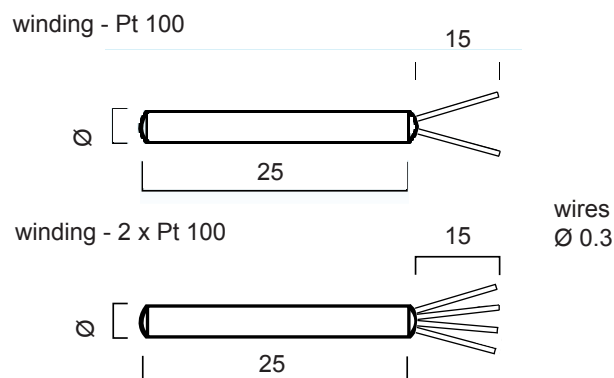


Ordering devices

Code	Name
30 03001 901	Measuring resistance winding
Code	Design
01	Pt 100
11	2 x Pt 100 (only tolerance class B)
Code	Tolerance class
1	A
2	B

30 03001 901	01	2	Ordered No.
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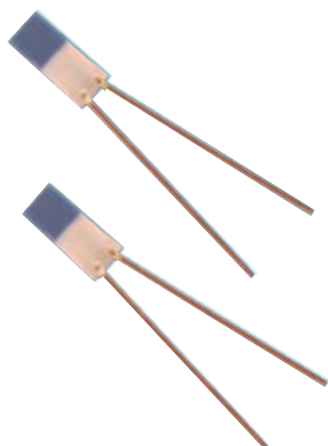
Dimension drawing



Order example:

1 measuring resistance winding Pt100B, type 03001

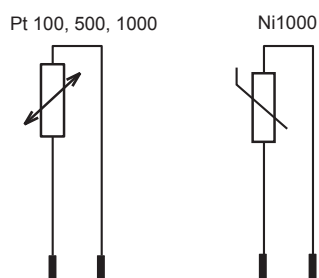
Type 03002



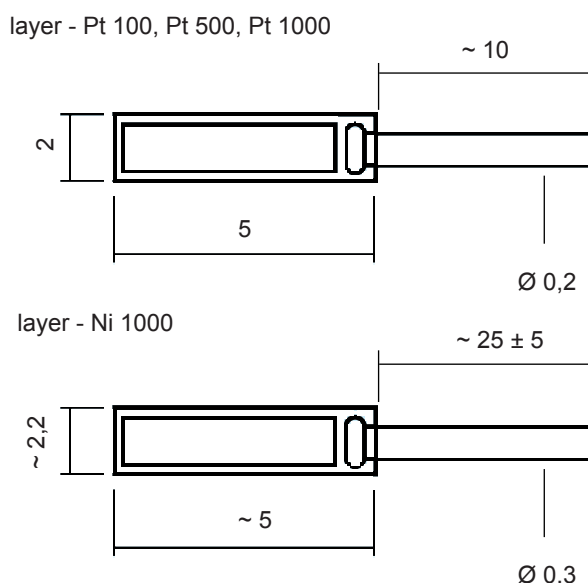
Description - use

The measuring resistances are designed for temperature measuring. The signal can be evaluated for temperature measuring registration or signalisation. Measuring **layer resistances Pt** are formed by ceramic plate with applied platinum layer and wires from Ni. Measuring **layer resistances Ni** are formed by ceramic plate with applied nickel layer and wires from Cu.

Measuring resistance connection



Dimension drawing



Measuring resistances Pt, Ni layer

- layer Pt 100, Pt 500, Pt 1000
- layer Ni1000, 5000 ppm/K
- layer Ni1000, 6180 ppm/K

Characteristics

- 2-wire connection
- shock resistant design
- mounting into protection well

Technical data

Measuring range:	Pt: -40 to +400°C
	Ni: -50 to +200°C
Measuring current:	to 1mA
Tolerance class:	Pt: A, B according to ČSN EN 60751
Temperature coefficient:	Ni: 5000, 6180 ppm/K according to DIN 43760
Tolerance class:	Ni: B according to DIN 43760 *)

*) for temperature ranges -50 to 0°C applies $\Delta T [^{\circ}\text{C}] = \pm (0,4 + 0,028 |t|)$
 for temperature ranges 0 to 200°C applies $\Delta T [^{\circ}\text{C}] = \pm (0,4 + 0,007 |t|)$
 where $|t|$ is absolute temperature value in °C

Ordering devices

Code	Name
30 03002 901	Measuring resistance layer
Code	Design
01	Pt 100
02	Pt 500
03	Pt 1000
04	Ni 1000
Code	Tolerance class, tem. coefficient
1	A (Pt)
2	B (Pt)
3	5000 ppm/K (Ni)
4	6180 ppm/K (Ni)

30 03002 901	01	2	Ordered No.
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Order example:

1 measuring resistance layer Pt100B, type 03002

Warranty

24 months warranty is provided from the delivery date unless specified otherwise in the purchase contract.