

ICS Thermocouples



Tel.: 03303 / 504066 Fax: 03303 / 504068

With connection head	
Angle Thermocouple	210
TC with replacable measuring insert	230, 231, 261, 272
TC for measuring of temperature in ovens	240, 244, 245A, 247A, 247B
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TC with neck tube and solid thread	254
TC with connection head	261
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TCs with protection tube for welding in according DIN	257
43772	

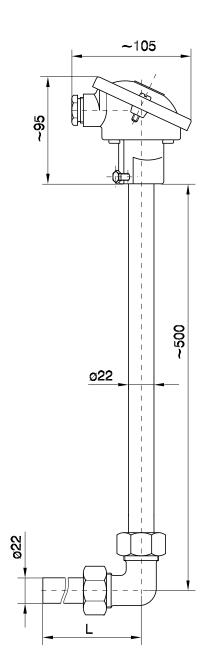
Measuring inserts	
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Precision thermocouples	
Precision thermocouple	PTE
Fixed point thermocouple	SKTE, SKTE-F, FP-MTE

Cable sensors	
Without attaching parts	K1T, K10T, K12T, FP-KTE
With attaching parts	K4T, K5T, K6T, K7T, K8T, K9T, K11T





Angle Thermocouple for measuring of temperature in ovens and hardness-baths; implementations with flange 22 or with adjustable thread joint 22 are deliverable (\rightarrow chapter parts and accessories)

Connection head

Form A according DIN 43 729 on inquiry

Protection classification

IP 43 according DIN 60529

Application temperature

up to +1000℃

Thermo junction

J (Fe-CuNi) DIN EN 60584 K (NiCr-Ni) DIN EN 60584 S (PtRh10-Pt) DIN EN 60584 on inquiry

Number of Thermo junction

- 1 thermocouple
- 2 thermocouples

Wire size

0,5 mm (only for TC S) 1 mm 3 mm (only for single design)

Protective tube material

1.4749 1.4762 1.4841 on inquiry

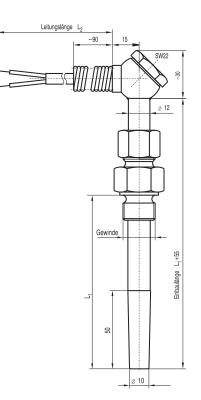
Nominal length L

500 mm on inquiry

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Thermocouple with a fix connected compensating cable and adjustable thread joint; for application in ship building

Construction

Basic implementation

Connection head

ball type head Ø 25 of stainless steel

Protection classification

IP 54 according DIN 60529

Application temperature

up to +800 ℃

Thermo junction

K (NiCr-Ni) DIN EN 60584 on inquiry

Number of Thermo junction

1 thermocouple

Protective tube material

1.4571 on inquiry

Insert length L₁

100 mm 160 mm 200 mm 250 mm on inquiry

Compensating cable length L₂

1500 mm on inquiry

Type of compensating cable

TGIV 2x1,5 on inquiry

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Thread

M18x1,5 M20x1,5 G1/2A G3/4A

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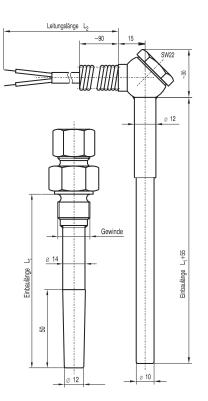
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Thermocouple with a fix connected compensating cable and additional protective tube with clamp thread joint; for application in ship building

Construction

Basic implementation

Connection head

ball type head Ø 25 of stainless steel

Protection classification

IP 54 according DIN 60529

Application temperature

up to +800 ℃

Thermo junction

K (NiCr-Ni) DIN EN 60584 on inquiry

Number of Thermo junction

1 thermocouple

Protective tube material

1.4571

on inquiry

Insert length L₁

100 mm 160 mm 200 mm 250 mm on inquiry

Compensating cable length L₂

1500 mm on inquiry

Type of compensating cable

TGIV 2x1,5 on inquiry

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Thread

M20x1,5 M27x2 G1/4A G3/4A on inquiry

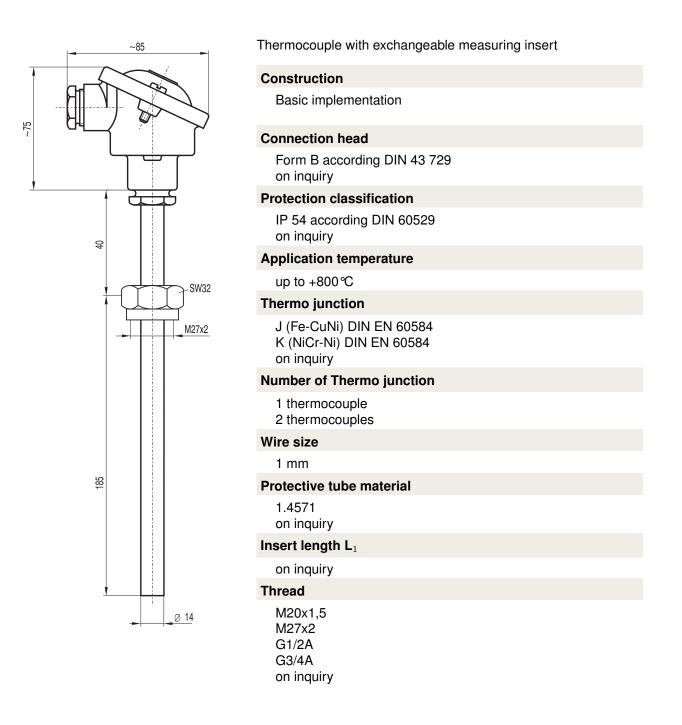
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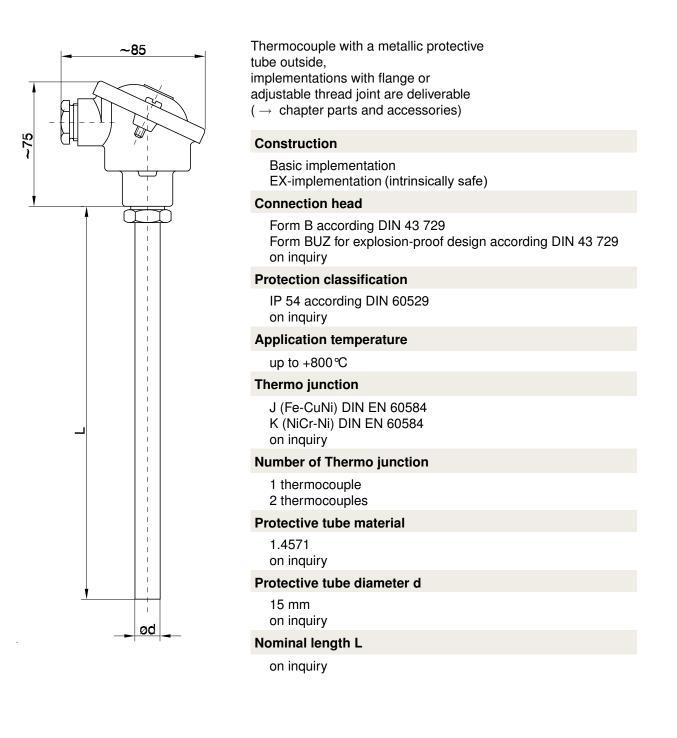




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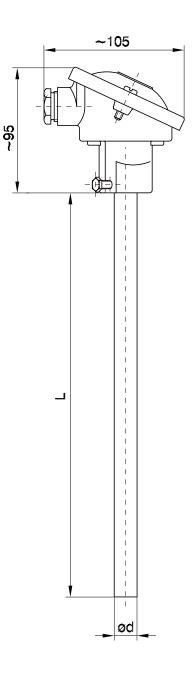




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Thermocouple with metallic protective tube outside and a ceramic inside,

implementations with flange or adjustable thread joint are deliverable ($\rightarrow\,$ chapter parts and accessories)

Connection head

Form A according DIN 43 729 on inquiry

Protection classification

IP 43 according DIN 60529

Application temperature

up to +1000℃

Thermo junction

J (Fe-CuNi) DIN EN 60584 K (NiCr-Ni) DIN EN 60584 S (PtRh10-Pt) DIN EN 60584

on inquiry

Number of Thermo junction

1 thermocouple 2 thermocouples

Wire size

0,5 mm (only for TC S) 1 mm

3 mm (only for single design)

Protective tube material

1.4749 1.4762

1.4841 on inquiry

Protective tube diameter d

22 mm

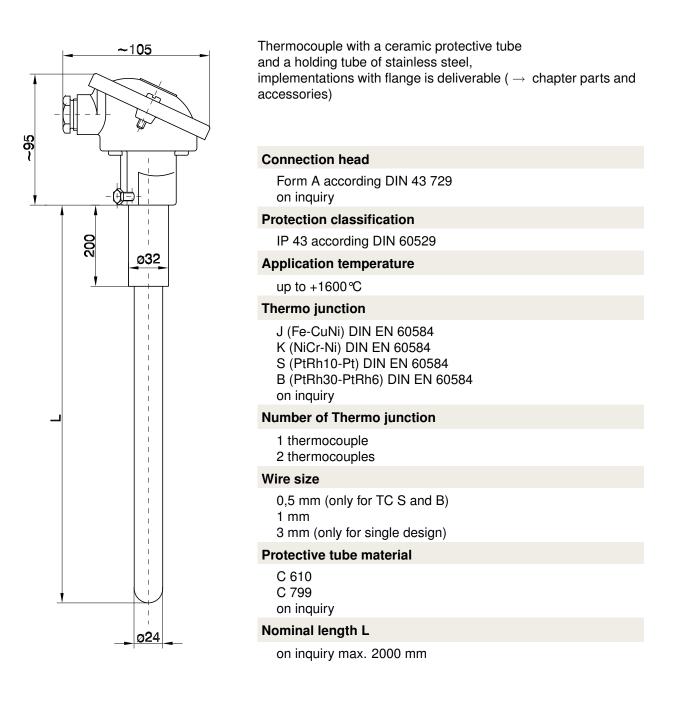
on inquiry

Nominal length L

on inquiry

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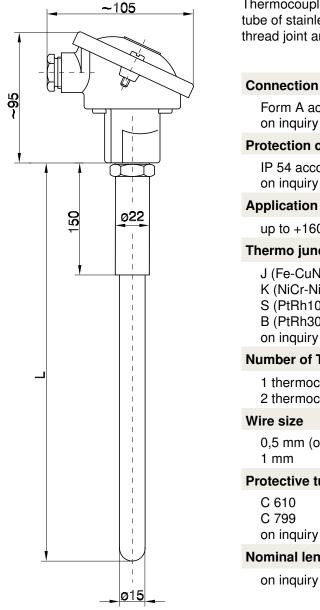




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Thermocouple with a ceramic protective tube and a holding tube of stainless steel, implementations with flange or adjustable thread joint are deliverable (\rightarrow chapter parts and accessories)

Connection head

Form A according DIN 43 729 on inquiry

Protection classification

IP 54 according DIN 60529 on inquiry

Application temperature

up to +1600 ℃

Thermo junction

- J (Fe-CuNi) DIN EN 60584
- K (NiCr-Ni) DIN EN 60584
- S (PtRh10-Pt) DIN EN 60584
- B (PtRh30-PtRh6) DIN EN 60584

Number of Thermo junction

- 1 thermocouple
- 2 thermocouples

Wire size

0,5 mm (only for TC S and B)

Protective tube material

on inquiry

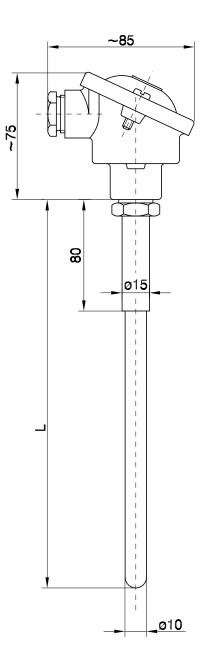
Nominal length L

on inquiry max. 2000 mm

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Thermocouple with a ceramic protective tube and a holding tube of stainless steel,

implementations with flange or adjustable thread joint are deliverable ($\rightarrow\,$ chapter parts and accessories)

Connection head

Form B according DIN 43 729 on inquiry

Protection classification

IP 54 according DIN 60529 on inquiry

Application temperature

up to +1600℃

Thermo junction

- J (Fe-CuNi) DIN EN 60584
- K (NiCr-Ni) DIN EN 60584
- S (PtRh10-Pt) DIN EN 60584
- B (PtRh30-PtRh6) DIN EN 60584 on inquiry
- on inquiry

Number of Thermo junction

- 1 thermocouple
- 2 thermocouples

Wire size

0,35 mm (TC S) 0,5 mm (only for TC S and B) 1 mm

Protective tube material

C 610 C 799 on inquiry

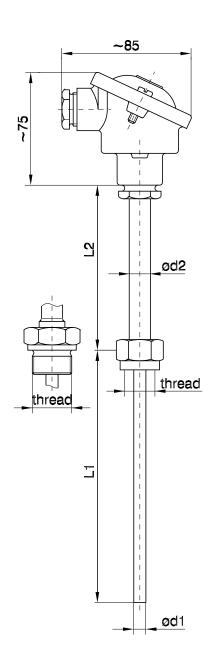
Nominal length L

on inquiry max. 1000 mm

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Thermocouple with exchangeable measuring insert, only for combination with already built-in protection tubes on measuring place (otherwise no insulation between process-connection and interior connection head), for middle and high operating pressures Attention: with directly built-in (without additional protective tube) can become the measuring insert in the extension tube soldered or welded (insulation between processconnection and interior connection head, measuring insert not replaceable) - with order declares!

Construction

Basic implementation EX-implementation (intrinsically safe / build in protective tube necessary)

Connection head

Form B according DIN 43 729 Form BUZ for explosion-proof design according DIN 43 729 on inquiry

Protection classification

IP 54 according DIN 60529 on inquiry

Application temperature

up to +800 ℃

Thermo junction

J (Fe-CuNi) DIN EN 60584 K (NiCr-Ni) DIN EN 60584 on inquiry

Number of Thermo junction

1 thermocouple 2 thermocouples

Wire size

1 mm

Protective tube material

1.4571 on inquiry

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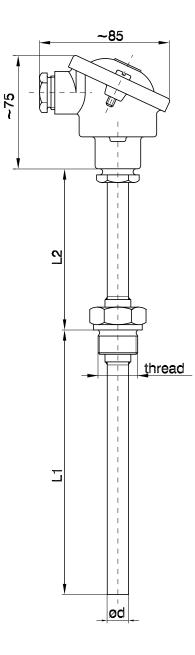


> Measuring insert diameter d1/ Extension tube diameter d2 6/9 6/11 8/12 on inquiry Insert length L₁ on inquiry extension tube length $\ensuremath{\textbf{L}}_2$ 130 mm on inquiry **Process connection** outside thread cup nut Thread M18x1,5 M20x1,5 M27x2 G1/2 G3/4 on inquiry

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Thermocouple with exchangeable measuring insert

Construction

Basic implementation Ex-implementation (intrinsically safe)

Connection head

Form B according DIN 43 729 Form BUZ for explosion-proof design according DIN 43 729 on inquiry

Protection classification

IP 54 according DIN 60529 on inquiry

Application temperature

up to +800℃

Thermo junction

J (Fe-CuNi) DIN EN 60584 K (NiCr-Ni) DIN EN 60584 on inquiry

Number of Thermo junction

1 thermocouple 2 thermocouples

Wire size

1 mm

Protective tube material

1.4571

Protective tube diameter d

11 mm on inquiry

Insert length L₁

on inquiry

extension tube length $\ensuremath{\textbf{L}}_2$

130 mm on inquiry

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Thread

M20x1,5 M27x2 G1/2A G3/4A on inquiry

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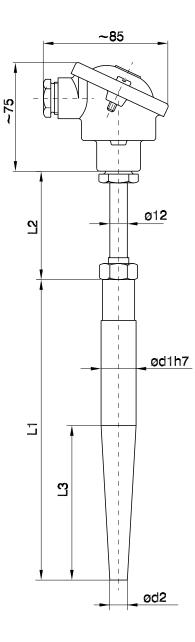
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Thermocouple with exchangeable sheathed measuring insert and protective tube for welding in

Construction

Basic implementation Ex-implementation (intrinsically safe)

Connection head

Form B according DIN 43 729 Form BUZ for explosion-proof design according DIN 43 729 on inquiry

Protection classification

IP 54 according DIN 60529 on inquiry

Application temperature

up to +800℃

Thermo junction

J (Fe-CuNi) DIN EN 60584 K (NiCr-Ni) DIN EN 60584 on inquiry

Number of Thermo junction

1 thermocouple

2 thermocouples

Protective tube material

1.0460 (C22.8)

1.4571

on inquiry

Protective tube Form 4 for welding in according DIN 43 772 Form; L1; L3; \varnothing d1; \varnothing d2; measuring insert- \varnothing ; thread

D1; 140; 65; 24; 12,5; 6; M18x1,5 D2; 200; 125; 24; 12,5; 6; M18x1,5

D4; 200; 65; 24; 12,5; 6; M18x1,5 D4S*; 140; 65; 18; 9; 3; M14x1,5 D5; 260; 125; 24; 12,5; 6; M18x1,5 on inquiry

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extension tube length $\ensuremath{\textbf{L}}_2$

130 mm on inquiry

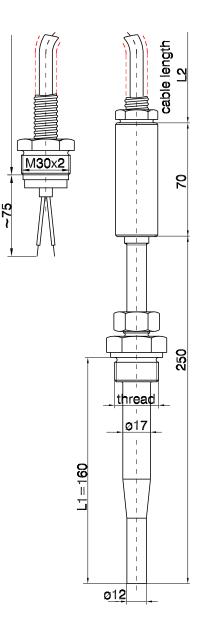
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Thermocouple with compensating cable and additional protective tube with clamp thread joint; for application in ship building

Construction

Basic implementation

Protection classification

IP 68 according DIN 60529

Application temperature

up to +800℃

Thermo junction

J (Fe-CuNi) DIN EN 60584 K (NiCr-Ni) DIN EN 60584 on inquiry

Number of Thermo junction

1 thermocouple on inquiry

Protective tube material

1.4571

on inquiry

Insert length L₁

160 mm on inquiry

Compensating cable length L₂

1500 mm on inquiry

Type of compensating cable

SISI 2x1,5

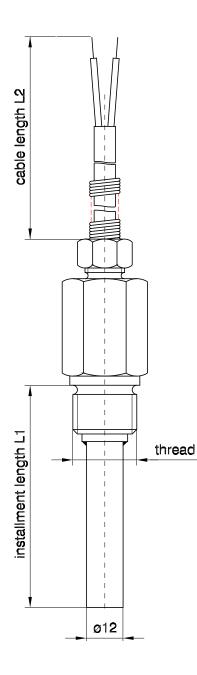
Thread

M27x2 on inquiry

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Thermocouple with exchangeable sheathed-measuring insert; for application in ship building

Construction

Basic implementation

Protection classification

IP 54 according DIN 60529

Application temperature

up to +800 ℃

Thermo junction

J (Fe-CuNi) DIN EN 60584 K (NiCr-Ni) DIN EN 60584 on inquiry

Number of Thermo junction

1 thermocouple on inquiry

Sheathed measuring inset diameter

6 mm

Protective tube material

1.4571 on inquiry

Insert length L₁

on inquiry

Compensating cable length L₂

1500 mm on inquiry

Type of compensating cable

TGIV 2x1,5 on inquiry

Thread

M20x1,5 G1/2A on inquiry

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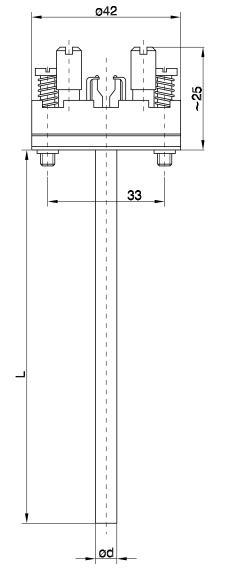
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Thermocouples Measuring insert Series 260



Application temperature

up to +800℃ on inquiry

Thermo junction

J (Fe-CuNi) DIN EN 60584 K (NiCr-Ni) DIN EN 60584 on inquiry

Number of Thermo junction

1 thermocouple 2 thermocouples

Protective tube material

1.4571 on inquiry

Measuring insert diameter d

6 mm 8 mm on inquiry

Nominal length L

on inquiry

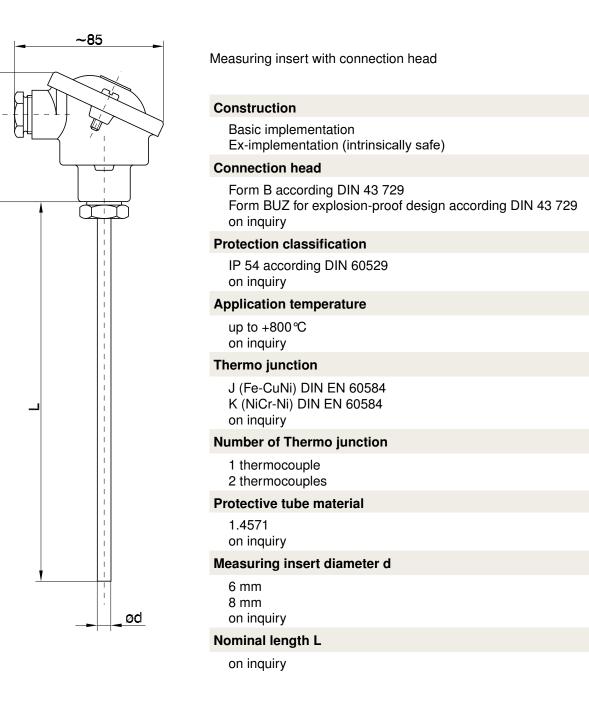
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ß

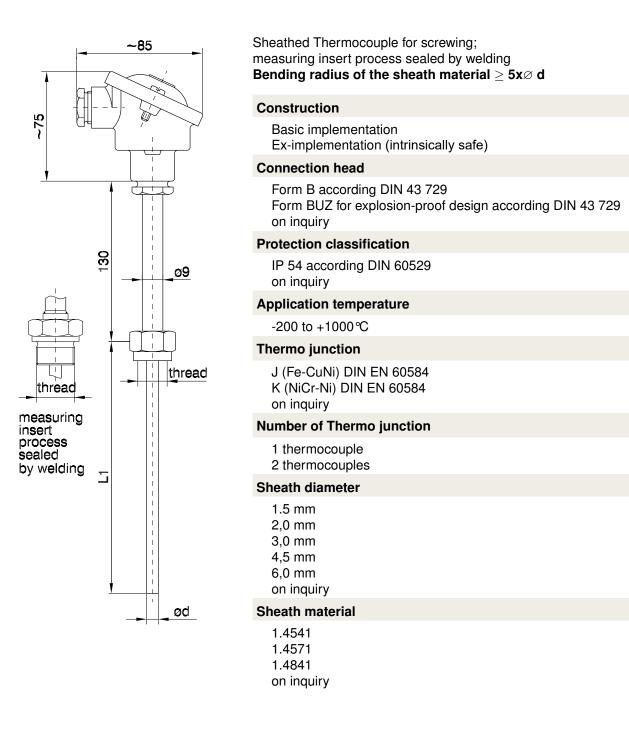
Thermocouples with connection head Series 261



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Measuring point design

insulated of sheath welded in sheath disconnected bead at 2 thermocouples connected bead at 2 thermocouples

Insert length L₁

on inquiry

Process connection

outside thread cup nut

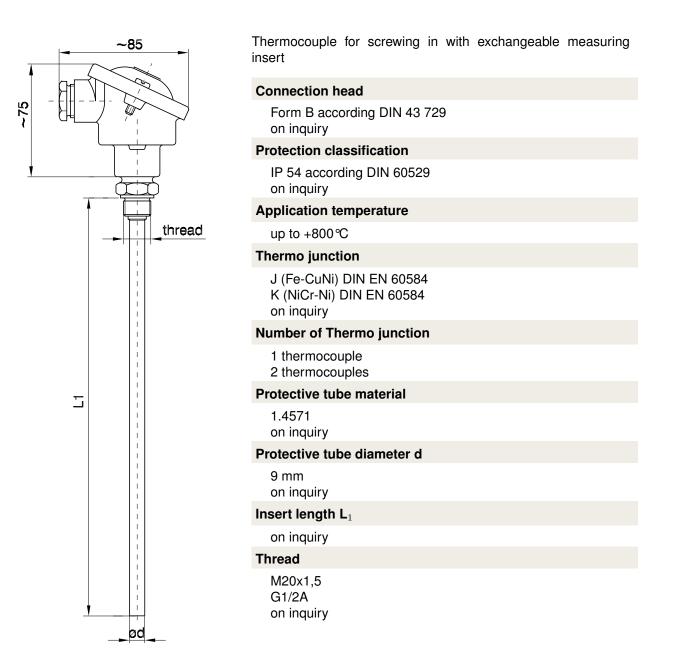
Thread

M20x1,5 G1/2A on inquiry

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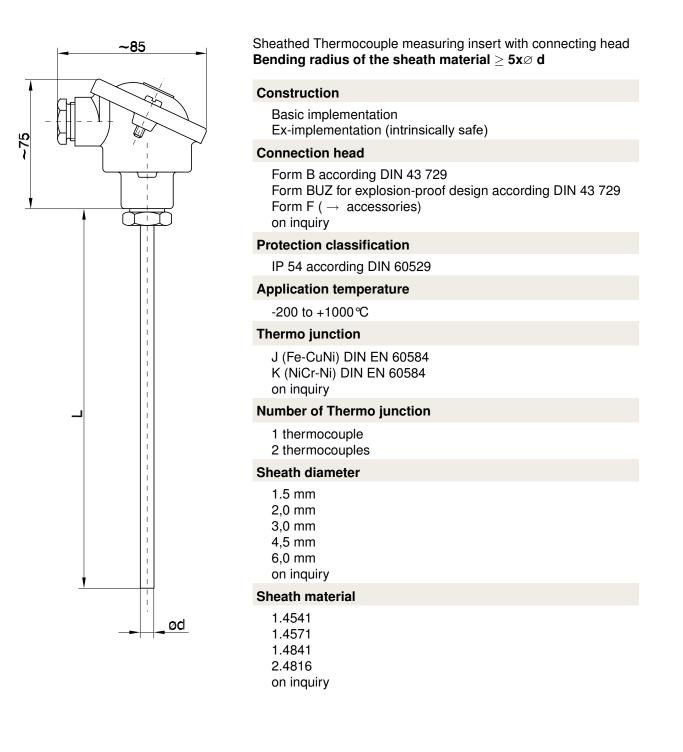
Series 272



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Measuring point design

insulated of sheath welded in sheath disconnected bead at 2 thermocouples connected bead at 2 thermocouples

Nominal length L

on inquiry

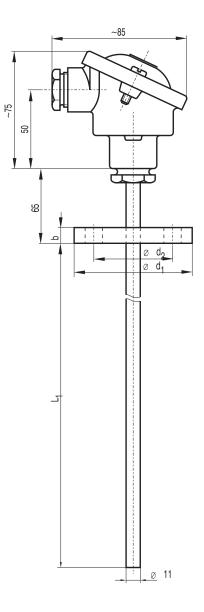
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Thermocouple with flange and replaceable measuring insert

Construction

Basic implementation Ex-implementation (intrinsically safe)

Connection head

Form B according DIN 43 729 Form BUZ for explosion-proof design according DIN 43 729 on inquiry

Protection classification

IP 54 according DIN 60529 on inquiry

Application temperature

up to +800 ℃

Thermo junction

J (Fe-CuNi) DIN EN 60584 K (NiCr-Ni) DIN EN 60584 on inquiry

Number of Thermo junction

- 1 thermocouple
- 2 thermocouples

Flange

flange design, flange dimensions as soon as flange material on inquiry

Wire size

1 mm

Protective tube material

1.4571

on inquiry

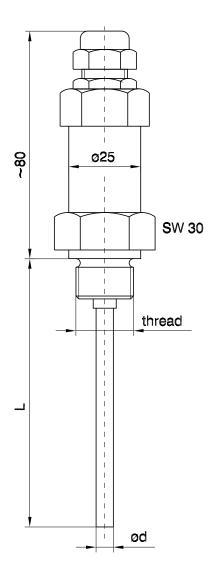
Insert length L₁

on inquiry

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Sheathed Thermocouple with a little cylindrical connection head for screwing in; process sealed welded in Bending radius of the sheath material $\geq 5x \varnothing d$

Protection classification

IP 68 according DIN 60529

Application temperature

-200 to +1000℃

Thermo junction

J (Fe-CuNi) DIN EN 60584 K (NiCr-Ni) DIN EN 60584 on inquiry

Number of Thermo junction

1 thermocouple

Sheath diameter

1.5 mm

- 2,0 mm
- 3,0 mm
- 4,5 mm

6,0 mm

on inquiry

Sheath material

1.4571

1.4841

on inquiry

Measuring point design

insulated of sheath welded in sheath

Insert length L₁

on inquiry

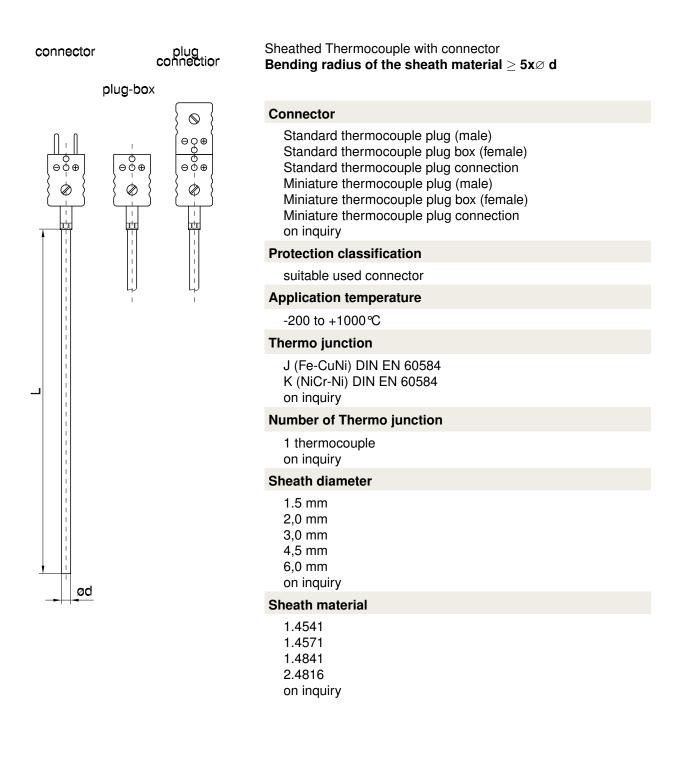
Thread

M20x1,5 G1/2A on inquiry

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Measuring point design

insulated of sheath welded in sheath

Nominal length L

on inquiry

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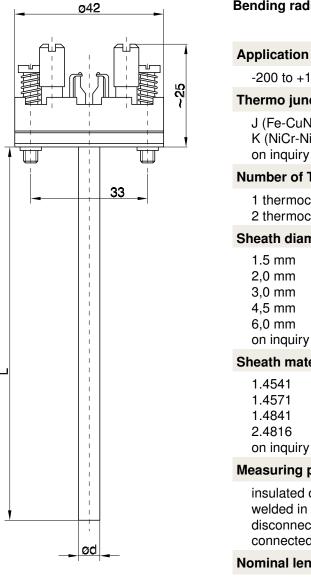
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Thermocouples

Sheathed thermocouple measuring inserts

Series 285



Bending radius of the sheath material $\geq 5x \emptyset d$

Application temperature

-200 to +1000℃

Thermo junction

J (Fe-CuNi) DIN EN 60584 K (NiCr-Ni) DIN EN 60584 on inquiry

Number of Thermo junction

- 1 thermocouple
- 2 thermocouples

Sheath diameter

Sheath material

on inquiry

Measuring point design

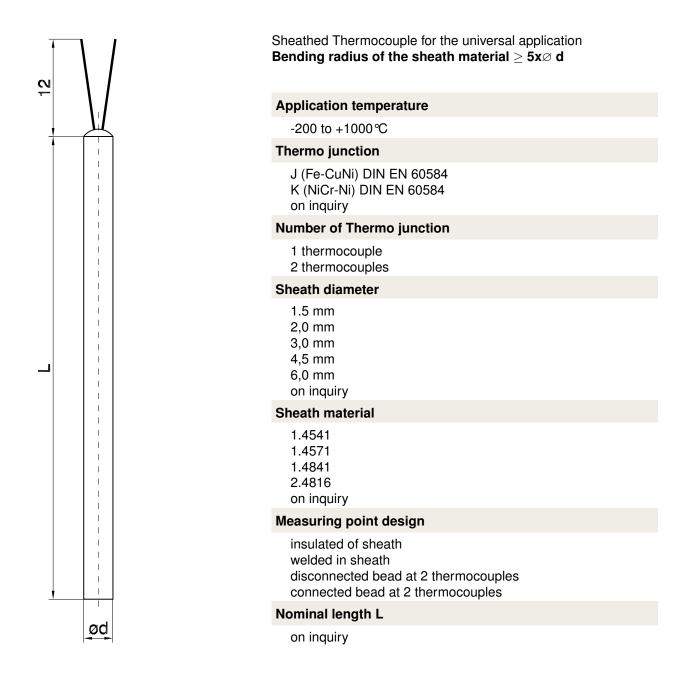
insulated of sheath welded in sheath disconnected bead at 2 thermocouples connected bead at 2 thermocouples

Nominal length L

on inquiry

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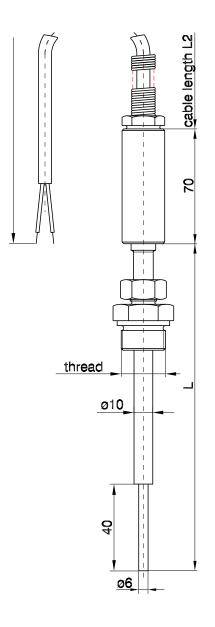




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Special-thermometer for the application in the ship building, privileged suitable for measuring the exhaust-gas-temperature on the ship diesel engine, with adjustable cutting ring thread joint **Bending radius of the sheath material** $\geq 5x \oslash d$

Construction

Basic implementation

Protection classification

IP 68 according DIN 60529

Application temperature

up to +800℃

Thermo junction

J (Fe-CuNi) DIN EN 60584 K (NiCr-Ni) DIN EN 60584 on inquiry

Number of Thermo junction

1 thermocouple 2 thermocouples

Sheath material

1.4541 1.4571 on inquiry

Measuring point design

insulated of sheath welded in sheath disconnected bead at 2 thermocouples connected bead at 2 thermocouples

Nominal length L

140 mm on inquiry

Compensating cable length L₂

1500 mm on inquiry

Type of compensating cable

on inquiry

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Thermocouples Sheathed Thermocouple Series 290

Thread

M18x1,5 on inquiry

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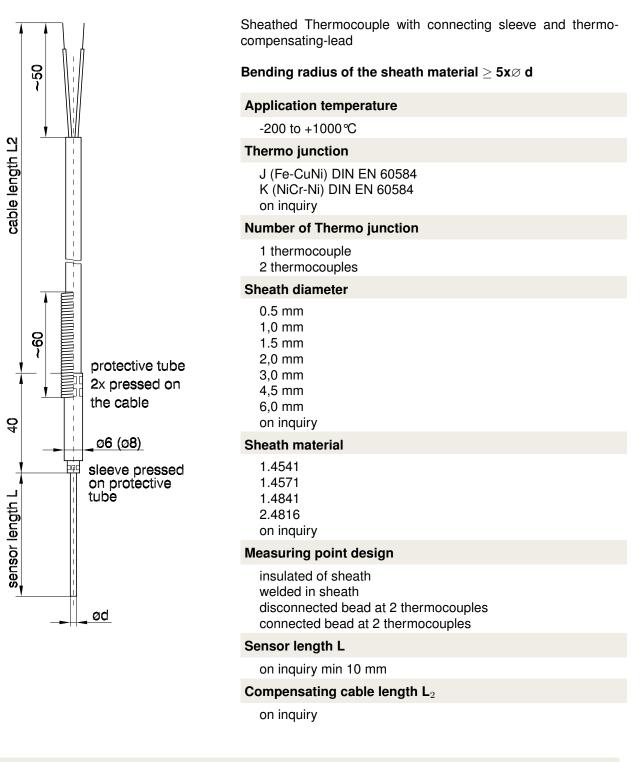
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Thermocouples Sheathed Thermocouple Series 294



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Thermocouples Sheathed Thermocouple

Series 294

Type of compensating cable

on inquiry

Bend protection

without with spiral spring

Connector

free ends connector on inquiry

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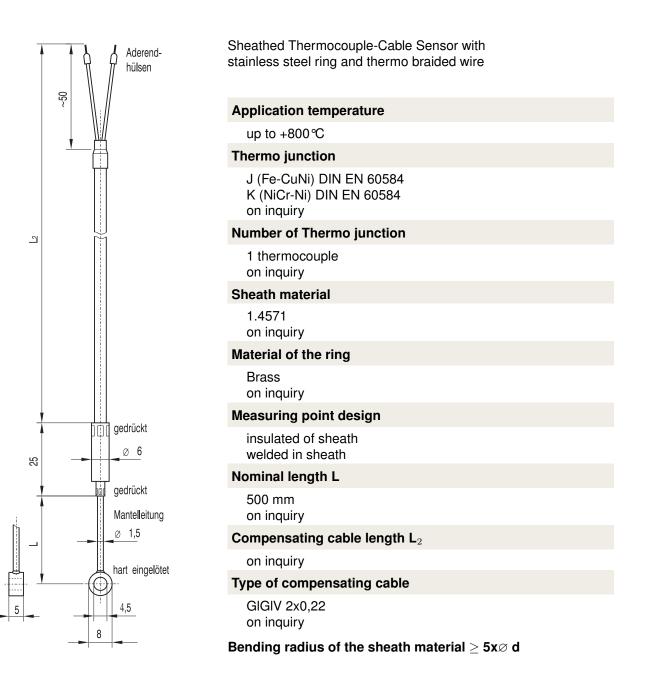
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Thermocouples Sheathed Thermocouple Series 500

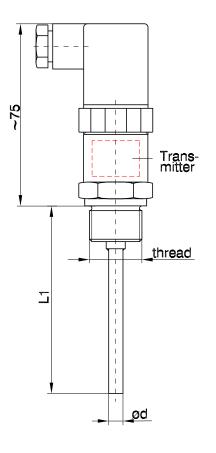


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Thermocouples Thermocouple with connector Series 506



Small thermocouple for screwing in with connectors and built-in transmitter

output signal 4...20mA, measuring range on inquiry

Connection head

connector GSP/GDM

Protection classification

IP 65 according DIN 60529

Application temperature

to +200 ℃ (max. 85 ℃ on transmitter)

Thermo junction

J (Fe-CuNi) DIN EN 60584 K (NiCr-Ni) DIN EN 60584 on inquiry

Number of Thermo junction

1 thermocouple

Protective tube material

1.4571 on inquiry

Protective tube diameter d

6 mm

on inquiry

Insert length L₁

on inquiry

Thread

G1/2A on inquiry

Output

4 ... 20mA

Loop voltage

10...35VDC, reverse protection

Linearity error

<1% FS*

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Thermocouples Thermocouple with connector Series 506

Operating temperature of transformer

-40 ℃ ... +85 ℃ *FS - Temperature scale of transmitter

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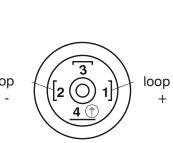
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Thermocouples Thermocouple with connector Series 506



Circuit

loop

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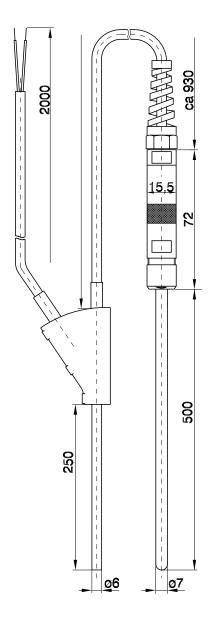
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Thermocouples Precision thermocouple Series PTE



Application areas

- secondary level or transfer thermometer

- highly precise measurements in a large temperature range

0...1600 °C (type R,S)

400...1700 ℃ (type B)

0...1000 °C (type Au-Pt)

0...1300 °C (type Pt-Pd)

Technical datas

- Precious metal wires of high homogeneity and purity, 99.99% typical, on demand with improved reproducibility by means of a special thermal treatment

- protecting tube, alumina C799, one additional as spare, very easy replaceable, \varnothing 7...8x700m, other geometry on demand

- handle \varnothing 20 x 95mm, Ni-plated brass, max. temperature 80 °C

- save transport and storing in smart attached box

- total mass (incl. box) about 2,7 kg

Thermo junction

S (PtRh10-Pt) DIN EN 60584 R (PtRh13-Pt) DIN EN 60584 B (PtRh30-PtRh6) DIN EN 60584 Au-Pt DIN EN 62460 Pt-Pd DIN EN 62460

Number of Thermo junction

1 thermocouple

Wire size

0,35 mm 0.5 mm

Protective tube material

C 799

Protective tube diameter d

7 mm 8 mm on inquiry

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Thermocouples Precision thermocouple Series PTE

Protective tube length L

700 mm on inquiry

Connector

free ends others on inquiry

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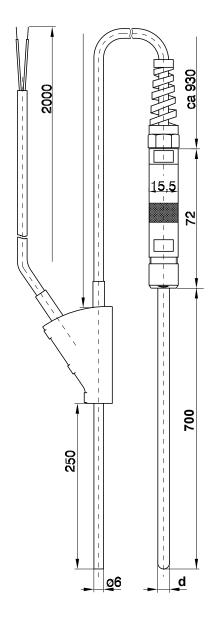
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Thermocouples Fixed point thermocouple Series SKTE



Application areas

- high precision thermometry from 200 up to 1600 °C
- in- situ recalibration at user specified fixed-point temperatures
- long-term measurements in dangerous or difficult access areas
- self calibration by means of special software

- recognision and correction of most of the systematic errors occuring along the entire thermocouple measuring circuit

- protective tube is removable for exchange of miniature fixed points cells (to be performed by trained persons in clean, dust free environment only)

Application temperature

applicable to max. 200 K above particular fixing point temperature

Thermo junction

S (PtRh10-Pt) DIN EN 60584 on inquiry

Number of Thermo junction

1 thermocouple

Comparison place of point of ice

Ø 6 x 250

Fixed point cell

minicell with specific pure metal on inquiry

Protective tube material

C 799

Protective tube diameter d

7,5 mm

Protective tube length L

700 mm

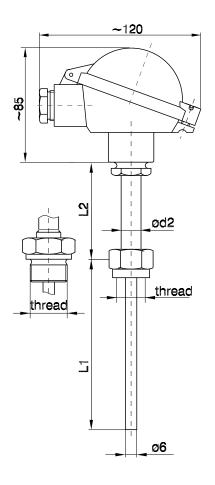
- passing the phase change transition point causes a duration signal (melting or freezing plateau, \rightarrow figure below), which supply reproducible calibration points. - reproducibility depends on dynamic of environmental temperature field (recommended h eating or c ooling r ate: $\mid dT/dt \mid <1K/min)$

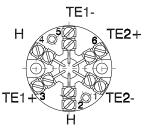
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Thermocouples Fixed point thermocouple Series SKTE-F





Application:

High precision temperature measurements at defined process temperatures by means of fixed-point calibration (self-calibrating thermocouple) e. g. superheated steam $400 \,^{\circ}$ C to $650 \,^{\circ}$ C

Construction:

Measuring insert 6mm with

- 1 fixed-point thermocouple (TE1)
- 1 additional thermocouple (TE2)
- 1 miniature fixed point cell
- 1 miniature heating element (ca. 20W)

Connection head

Form BUS according DIN 43 729

Protection classification

IP 65 according DIN 60529

Thermo junction

N (NiCrSi-NiAl) DIN EN 60584 on inquiry

Number of Thermo junction

2 thermocouples

Fixed point cell

minicell with specific pure metal on inquiry

Fixed point material

on inquiry dependent on application temperature

Protective tube material

1.4571

on inquiry

Insert length L₁

on inquiry from 100mm

extension tube length L₂

on inquiry from 130 mm

Process connection

outside thread cup nut

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Thermocouples Fixed point thermocouple Series SKTE-F

Thread

M18x1,5 M20x1,5 M27x2 G1/2 G3/4 on inquiry

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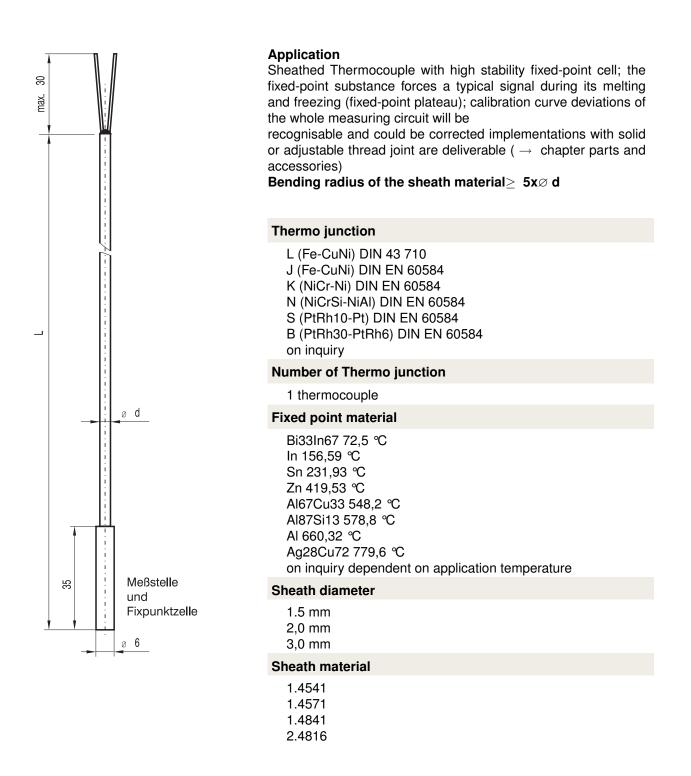
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Thermocouples Fixed point thermocouple Series FP-MTE



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Thermocouples Fixed point thermocouple Series FP-MTE

Measuring point design

insulated, integrated in fixed point cell

Nominal length L

on inquiry

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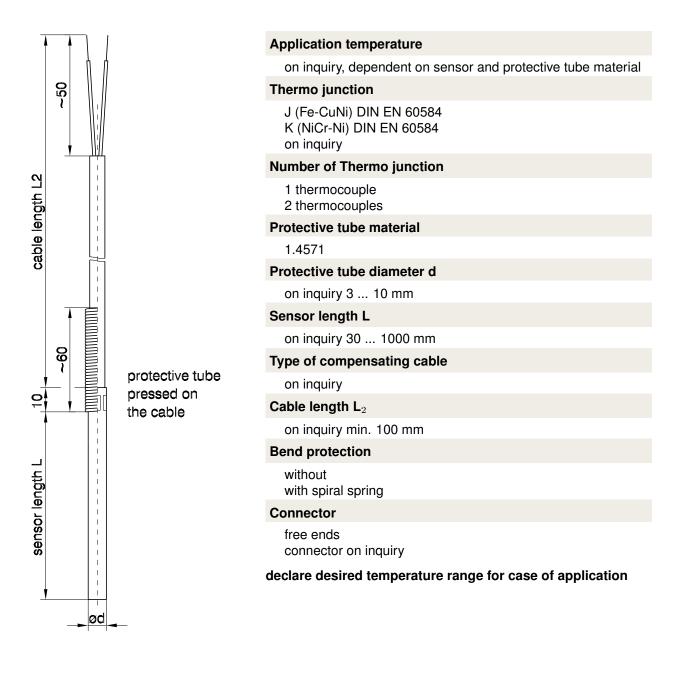
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Thermocouples Cable sensors Series K1T

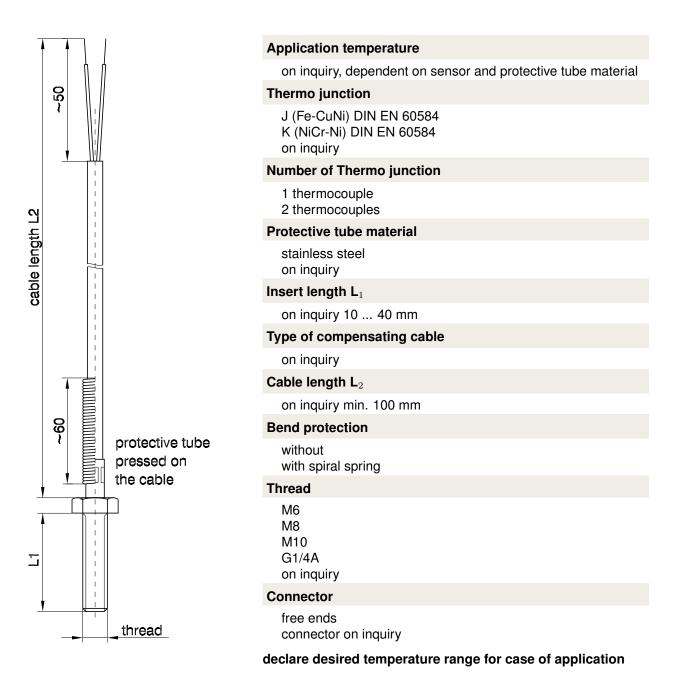


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Thermocouples Cable sensors Series K4T

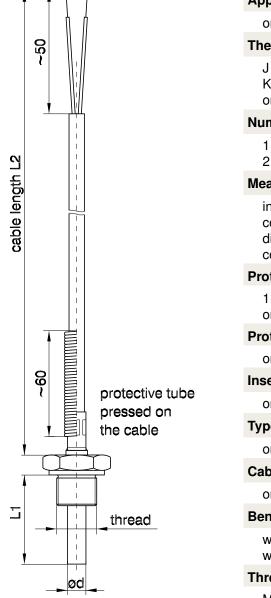


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Thermocouples Cable sensors Series K5T



Application temperature

on inquiry, dependent on sensor and protective tube material

Thermo junction

J (Fe-CuNi) DIN EN 60584 K (NiCr-Ni) DIN EN 60584 on inquiry

Number of Thermo junction

1 thermocouple 2 thermocouples

Measuring point design

insulated of protective tube connected to protective tube disconnected bead at 2 thermocouples connected bead at 2 thermocouples

Protective tube material

1.4571 on inquiry

Protective tube diameter d

on inquiry 3 ... 6 mm

Insert length L₁

on inquiry min. length of thread + 10 ... 1000 mm

Type of compensating cable

on inquiry

Cable length L₂

on inquiry min. 100 mm

Bend protection

without with spiral spring

Thread

M10 G1/4A G1/2A on inquiry

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Thermocouples Cable sensors Series K5T

Connector

free ends connector on inquiry

declare desired temperature range for case of application

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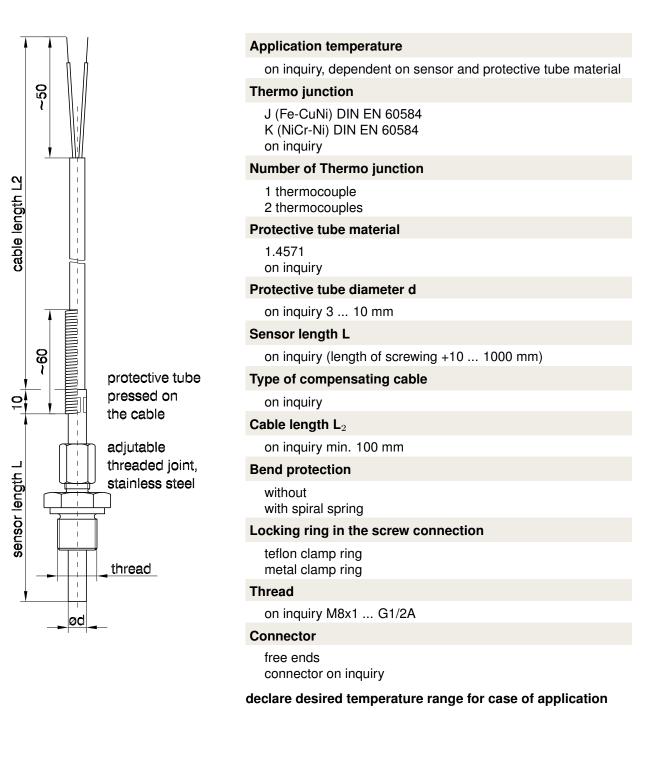
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Thermocouples Cable sensors Series K6T



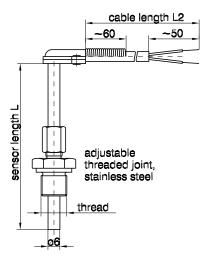
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Thermocouples Cable sensors

Series K7T



Application temperature

on inquiry, dependent on sensor and protective tube material

Thermo junction

J (Fe-CuNi) DIN EN 60584 K (NiCr-Ni) DIN EN 60584

Number of Thermo junction

1 thermocouple

2 thermocouples

Protective tube material

1.4571 on inquiry

Protective tube diameter d

6 mm on inquiry

Sensor length L

on inquiry (length of screwing +10 ... 1000 mm)

Type of compensating cable

on inquiry

Cable length L₂

on inquiry min. 100 mm

Bend protection

without with spiral spring

Thread

M10x1 G1/4A G1/2A on inquiry

Connector

free ends connector on inquiry

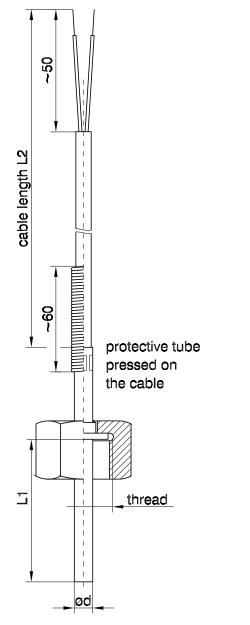
declare desired temperature range for case of application

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Thermocouples Cable sensors Series K8T



Application temperature

on inquiry, dependent on sensor and protective tube material

Thermo junction

J (Fe-CuNi) DIN EN 60584 K (NiCr-Ni) DIN EN 60584 on inquiry

Number of Thermo junction

1 thermocouple 2 thermocouples

Protective tube material

1.4571

on inquiry

Protective tube diameter d

on inquiry 3 ... 10 mm

Insert length L_1

on inquiry min. length of thread + 10 ... 1000 mm

Type of compensating cable

on inquiry

Cable length L₂

on inquiry min. 100 mm

Bend protection

without with spiral spring

Thread

M10x1 G1/2A on inquiry

Connector

free ends connector on inquiry

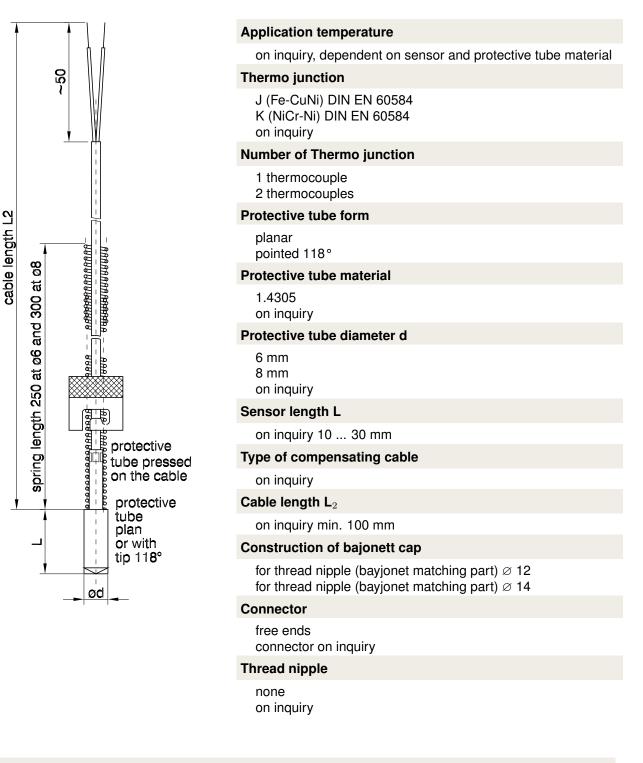
declare desired temperature range for case of application

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Thermocouples Cable sensors Series K9T



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Thermocouples Cable sensors Series K9T

declare desired temperature range for case of application

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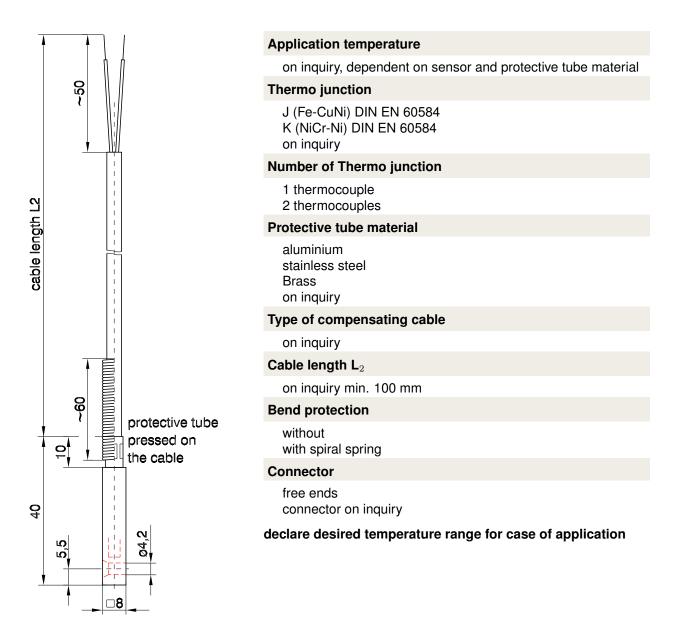
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Thermocouples Cable sensors Series K10T

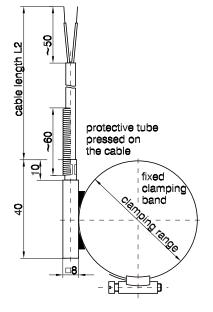


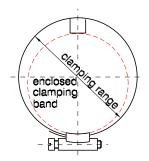
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Thermocouples Cable sensors Series K11T





Application temperature

on inquiry, dependent on sensor and protective tube material

Thermo junction

J (Fe-CuNi) DIN EN 60584 K (NiCr-Ni) DIN EN 60584 on inquiry

Number of Thermo junction

1 thermocouple 2 thermocouples

Protective tube material

stainless steel Brass on inquiry

Type of compensating cable

on inquiry

Cable length L₂

on inquiry min. 100 mm

Clamping band

fixed

enclosed

Clamping range

- 20 32 mm
- 32 50 mm
- 50 70 mm
- 70 90 mm
- 90 100 mm
- on inquiry

Bend protection

without

with spiral spring

Connector

free ends connector on inquiry

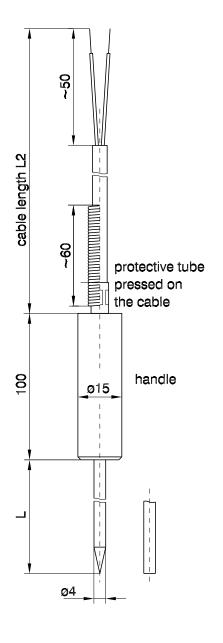
declare desired temperature range for case of application

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Thermocouples Cable sensors Series K12T



Application temperature

on inquiry, dependent on sensor and protective tube material

Thermo junction

J (Fe-CuNi) DIN EN 60584 K (NiCr-Ni) DIN EN 60584 on inquiry

Number of Thermo junction

1 thermocouple 2 thermocouples

Handle material

stainless steel PTFE (Teflon, max. 260 ℃)

Protective tube form

planar

with penetration point

Protective tube material

stainless steel on inquiry

Protective tube diameter d

4 mm on inquiry

Sensor length L

on inquiry 20 ... 190 mm

Type of compensating cable

on inquiry

Cable length L₂

on inquiry min. 100 mm

Bend protection

without with spiral spring

Connector

free ends connector on inquiry

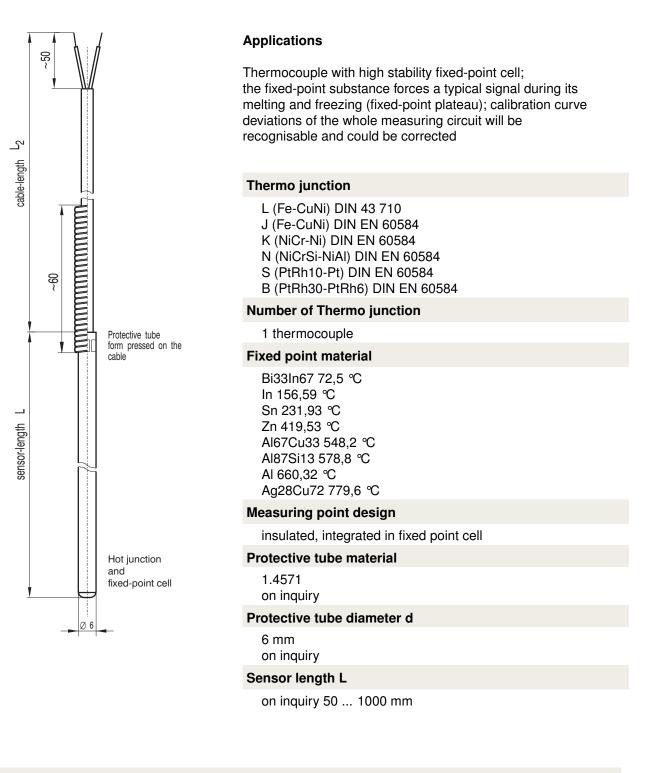
declare desired temperature range for case of application

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Thermocouples Cable sensors Series FP-KTE



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Thermocouples Cable sensors Series FP-KTE

Compensating cable length L₂

on inquiry

Type of compensating cable

on inquiry

Bend protection

without with spiral spring

Connector

free ends connector on inquiry

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