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Training, Selecting, purchasing

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JUMO Instrument Co. Ltd.

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JUMO Process Control, Inc.

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Screw-in thermocouples with terminal head form B

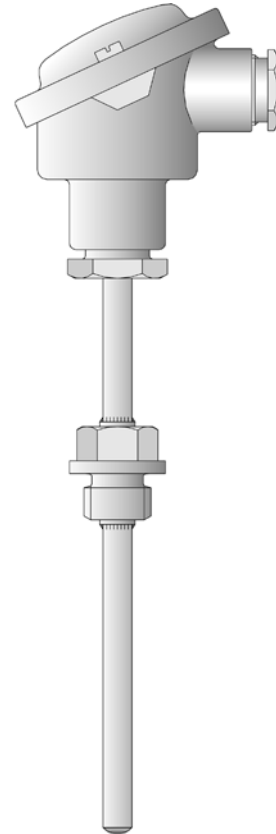
- For temperatures from -200 to +800 °C
- Available with different thermocouples
- As single or double thermocouple
- Connection head form B, BUZ, BUZH, BBK
- Available with transmitter

Screw-in thermocouples are preferentially used for measuring temperatures in fluids and gases. A decisive selection criterion is the reliable sealing feature of this installation type with vacuum and with overpressure. Application fields are found, amongst others, in heating, furnace/kiln and process technology.

The connection head is suitable for ambient temperatures up to +100 °C. The versions BUZ, BUZH and BBK are also available in addition to the standard connection head, form B.

Sheaths made of stainless steel protect the measuring insert against chemical influences and mechanical damage.

Thermocouples (elements) as per DIN EN 60584, class 2 and DIN 43710 are set into the measuring insert. Versions with two thermocouples are also possible.



Technical data

Terminal head

Form B DIN 43729, die-cast aluminum, M 20x1.5; IP65, ambient temperature -40 to +100 °C
Form BUZ, die-cast aluminum, M 20x1.5; IP65, ambient temperature -40 to +100 °C
Form BUZH, die-cast aluminum, M 20x1.5; IP65, ambient temperature -40 to +100 °C
Form BBK, plastic, M 20x1.5; IP54, ambient temperature -30 to +130 °C
Caution: reduced ambient temperature range when using transmitters,
Data sheets 70.7010 and 70.7060

Extension tube

Stainless steel 1.4571, length 130 mm

Process connection

thread, stainless steel 1.4571

Sheath

Stainless steel 1.4571, diameter 9 mm

Measuring insert

Exchangeable, insulated structure:

- 1x Fe-CuNi „J“, DIN EN 60584, cl. 2, operating temperature -200 to +600 °C
- 1x Fe-CuNi „L“, DIN 43710, cl. 2, operating temperature -200 to +600 °C
- 1x NiCr-Ni „K“, DIN EN 60584, cl. 2, operating temperature -200 to +800 °C
- 2x Fe-CuNi „J“, DIN EN 60584, cl. 2, operating temperature -200 to +600 °C
- 2x Fe-CuNi „L“, DIN 43710, cl. 2, operating temperature -200 to +600 °C
- 2x NiCr-Ni „K“, DIN EN 60584, cl. 2, operating temperature -200 to +800 °C

Transmitter

Programmable transmitter, 4 to 20 mA/20 to 4 mA output, data sheet 70.7010
Wtrans B programmable head transducer with radio transmission, data sheet 70.7060
(suitable Wtrans receivers, data sheet 90.2931)

Accessories

Sheath, data sheet 90.9710 (90.9721)



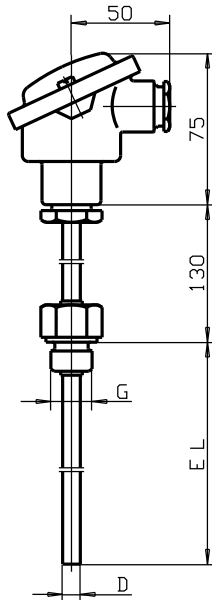
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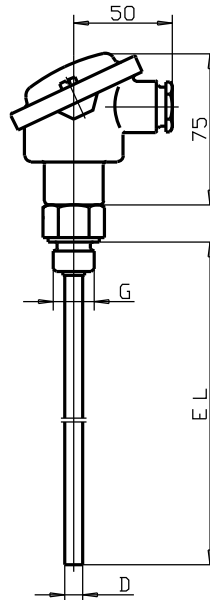
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Dimensions



Basic type 901020/10



Basic type 901020/20



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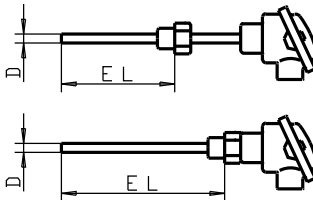
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Order specifications: Screw-in thermocouples with connection head form B

(1) Basic type		
901020/10	Screw-in thermocouple with extension tube and continuous sheath	
901020/20	Screw-in thermocouple without extension tube and continuous sheath	
(2) Operating temperature in °C		
x x	150	-200 to +600 °C
x x	165	-200 to +800 °C
(3) Measuring insert		
x x	1040	1x Fe-CuNi "J"
x x	1042	1x Fe-CuNi "L"
x x	1043	1x NiCr-Ni "K"
x x	2040	2x Fe-CuNi „J“
x x	2042	2x Fe-CuNi „L“
x x	2043	2x NiCr-Ni „K“
(4) Sheath diameter D in mm		
x x	9	Ø 9 mm
(5) Fitting length EL in mm (100 ≤EL≤ 1000)		
x x	160	160 mm
x x	200	200 mm
x x	250	250 mm
x x	300	300 mm
x x	400	400 mm
x x	600	600 mm
x x	...	Specification in plain text (50 mm steps)
(6) Process connection		
x x	104	Screw-connection G 1/2
x x	105	Screw-connection G 3/4
x x	106	Screw connection G 1
x x	126	Screw-connection M 18 x 1.5
(7) Extra codes		
x x	000	no extra code
x	306	Extension tube 70 mm
x x	320	terminal head Form BUZ
x x	321	terminal head Form BUZH
x x	322	Connection head form BBK
x x	331	1x transmitter programmable output 4 to 20 mA/20 to 4 mA ³ , data sheet 70.7010
x x	335	2x transmitter programmable output 4 to 20 mA/20 to 4 mA ³ , data sheet 70.7010
x x	859	1x Wtrans B programmable head transducer with radio transmission, data sheet 70.7060



Order code (1) (2) (3) (4) (5) (6) (7) ¹
 Order example 901020/10 - 150 - 1042 - 9 - 250 - 104 / 000

Note: Sheaths, Data Sheet 90.9710 (90.9721)

¹ List extra codes in sequence, separated by commas.

³ Specify measuring range and output signal in plain text.



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Accessories for programmable 2-wire transmitter type 707010 in the accessories data sheet 70.9770

Part	Sales No.:
PC interface with TTL/RS232 converter and adapter (socket connector)	70/00350260
PC interface with USB/TTL converter, adapter (socket connector) and adapter (pins)	70/00456352
Special programming (standard measuring range 0 to 100 °C)	-
Setup program on CD-ROM, multilingual	70/00378733

Accessories for Wtrans B, programmable head transmitter with radio transmission Type 707060

Part	Sales No.:
Lithium battery 3.6 V, 2.2 Ah (size AA)	70/00547559
PC interface with USB/TTL converter, adapter (socket) and adapter (pins)	70/00456352
PC interface with TTL/RS232 converter and adapter (socket connector)	70/00350260
Setup program on CD-ROM, multilingual	70/00488887
Setup program including OnlineChart on CD-ROM, multilingual	70/00549067
OnlineChart activation	70/00549188





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