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JUMO Process Control, Inc.
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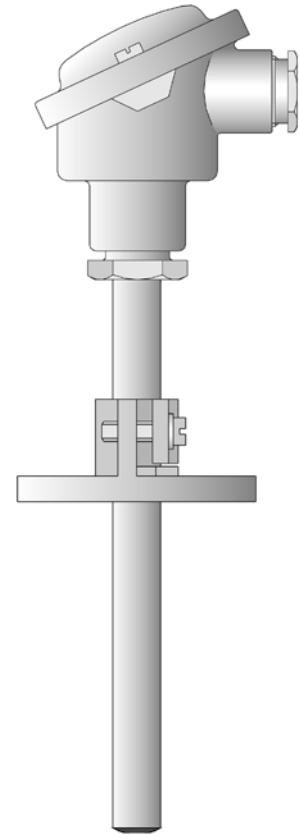
Push-in RTD temperature probes with terminal head form B

- For temperatures from -50 to +600 °C
- With replaceable measuring insert
- As single or double RTD temperature probes
- Connection head form B, BUZ, BUZH, NS
- Available with transmitter

Push-in RTD temperature probes are preferentially used for measuring temperatures in liquids and gasses. Application areas encompass, among others, the air conditioning technology and refrigeration engineering, as well as the heating system, kiln and apparatus engineering sector, and in process technology.

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

The measuring insert is normally fitted with a Pt100 temperature probe as per DIN EN 60751, class B in 2-wire circuit, versions with Pt500 or Pt1000 are also possible. Connection is available in 3-wire or 4-wire-circuitry as an option. A transmitter can be optionally integrated into the connection head.



Technical data

Terminal head

Form B DIN 43729, die-cast aluminum, M 20×1.5; IP65, ambient temperature -40 to +100 °C
Form BUZ, die-cast aluminum, M 20×1.5; IP65, ambient temperature -40 to +100 °C
Form BUZH, die-cast aluminum, M 20×1.5; IP65, ambient temperature -40 to +100 °C
Form NS, plastic, M 20×1.5; IP54, ambient temperature -30 to +130 °C
Caution: reduced ambient temperature range when using transmitters, data sheets 707010, 707030 and 707060

Process connection

Sheet steel flange Ø 9 mm, Ø 11 mm, galvanized steel
Stop flange Ø 15 mm, DIN 43734, gray cast iron
Pipe screw-connection Ø 12 mm, Ø 15 mm, stainless steel
Stainless steel 1.4571, Ø 9 mm, Ø 11 mm, Ø 15 mm

Sheath

Measuring insert

Transmitter

Replaceable, Pt100 temperature probe, DIN EN 60751, class B, 2-wire circuit
Analog transmitter, 4 to 20 mA output, data sheet 707030
Analog transmitter, 0 to 10 V output, data sheet 707030
Programmable transmitter, 4 to 20 mA/20 to 4 mA output, data sheet 707010
Wtrans B programmable head transducer with radio transmission, data sheet 707060 (suitable Wtrans receivers, data sheet 902931)

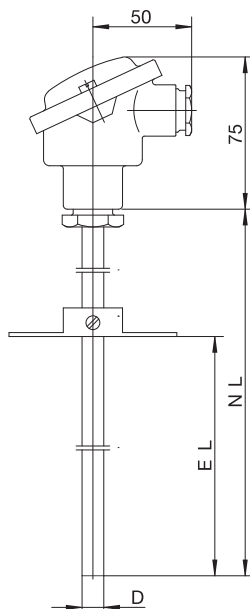
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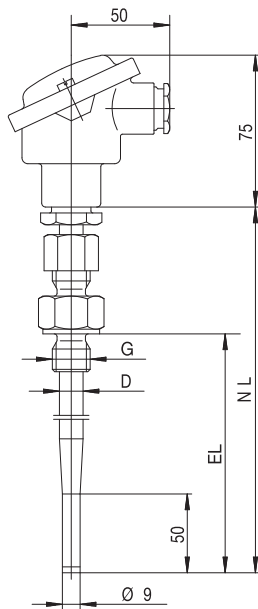
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Dimensions



Basic type 902120/10



Basic type 902120/11

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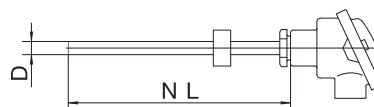
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Order specifications: Push-in RTD temperature probe with connection head form B

(1) Basic type

902120/10 Push-in RTD temperature probes
with continuous sheath



(2) Operating temperature

150 -200 to +600 °C
 402 -50 to +400 °C (standard)
 415 -50 to +600 °C

(3) Measuring insert

1001 1× Pt100 in 3-wire-circuit
 1003 1× Pt100 in 2-wire circuit
 1011 1× Pt100 in 4-wire circuit
 2001 2× Pt100 in 3-wire circuit
 2003 2× Pt100 in 2-wire circuit

(4) Tolerance class as per DIN EN 60751

1 Class B (standard)
 2 Class A

(5) Sheath diameter D

9 Ø 9 mm
 11 Ø 11 mm
 15 Ø 15 mm

(6) Nominal length NL (100 mm ≤ NL ≤ 1000 mm)

180 180 mm, fitting length (EL) 100 to 140 mm
 270 270 mm, fitting length (EL) 100 to 230 mm
 290 290 mm, fitting length (EL) 100 to 250 mm
 350 350 mm, fitting length (EL) 100 to 310 mm
 410 410 mm, fitting length (EL) 100 to 370 mm
 420 420 mm, fitting length (EL) 100 to 400 mm
 500 500 mm, fitting length (EL) 100 to 460 mm
 710 710 mm, fitting length (EL) 100 to 670 mm
 1000 1000 mm, fitting length (EL) 100 to 960 mm
 ... Specification in plain text (50 mm steps)

(7) Process connection

000 Without process connection
 254 Sheath screw connection G 1/2 (for a 15 mm diameter only)
 663 Sheet steel flange Ø 9 mm
 665 Sheet steel flange Ø 11 mm
 668 Stop flange Ø 15 mm, DIN 43734

(8) Extra codes

000 No extra code
 320 Terminal head Form BUZ
 321 Terminal head Form BUZH
 322 Connection head form NS
 330 1× analog transmitter, 4 to 20 mA² output, data sheet 707030
 331 1× transmitter programmable output 4 to 20 mA/20 to 4 mA³, data sheet 707010
 333 1× analog transmitter, 0 to 10 V² output, data sheet 707030
 334 2× analog transmitters, 4 to 20 mA² output, data sheet 707030
 335 2× transmitter programmable output 4 to 20 mA/20 to 4 mA³, data sheet 707010
 337 2× analog transmitters, 0 to 10 V² output, data sheet 707030
 859 1× Wtrans B programmable head transducer with radio transmission, data sheet 707060

Order code (1) - (2) - (3) - (4) - (5) - (6) - (7) / (8), ...¹
 Order example 902120/10 - 402 - 1001 - 1 - 9 - 410 - 663 / 000

¹ List extra codes in sequence, separated by commas.

² Specify measuring range in plain text.

³ Specify measuring range and output signal in plain text.

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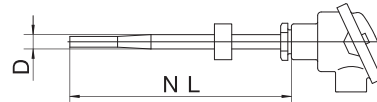
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Order specifications: Push-in RTD temperature probe with connection head form B

(1) Basic type

902120/11 Push-in RTD temperature probes
with stepped sheath



(2) Operating temperature

150 -200 to +600 °C
 402 -50 to +400 °C (standard)
 415 -50 to +600 °C

(3) Measuring insert

1001 1× Pt100 in 3-wire-circuit
 1003 1× Pt100 in 2-wire circuit
 1011 1× Pt100 in 4-wire circuit
 2001 2× Pt100 in 3-wire circuit
 2003 2× Pt100 in 2-wire circuit

(4) Tolerance class as per DIN EN 60751

1 Class B (standard)
 2 Class A

(5) Sheath diameter D

12 Ø 12 stepped down to 9 mm

(6) Nominal length NL (100 mm ≤ NL ≤ 700 mm)

180 180 mm, fitting length (EL) 100 to 140 mm
 270 270 mm, fitting length (EL) 100 to 230 mm
 290 290 mm, fitting length (EL) 100 to 250 mm
 350 350 mm, fitting length (EL) 100 to 310 mm
 410 410 mm, fitting length (EL) 100 to 370 mm
 500 500 mm, fitting length (EL) 100 to 460 mm
 ... Specification in plain text (50 mm steps)

(7) Process connection

000 Without process connection
 254 Sheath screw-connection G 1/2

(8) Extra codes

000 No extra code
 320 Terminal head Form BUZ
 321 Terminal head Form BUZH
 322 Connection head form NS
 330 1× analog transmitter, 4 to 20 mA² output, data sheet 707030
 331 1× transmitter programmable output 4 to 20 mA/20 to 4 mA³, data sheet 707010
 333 1× analog transmitter, 0 to 10 V² output, data sheet 707030
 334 2× analog transmitters, 4 to 20 mA² output, data sheet 707030
 335 2× transmitter programmable output 4 to 20 mA/20 to 4 mA³, data sheet 707010
 337 2× analog transmitters, 0 to 10 V² output, data sheet 707030
 859 1× Wtrans B programmable head transducer with radio transmission, data sheet 707060

Order code (1) - (2) - (3) - (4) - (5) - (6) - (7) - (8) / ...¹
Order example 902120/11 - 402 - 1001 - 1 - 12 - 410 - 000 / 000

¹ List extra codes in sequence, separated by commas.

² Specify measuring range in plain text.

³ Specify measuring range and output signal in plain text.

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Stock versions

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	Sales No.:							
902120/10	-	415	-	1003	-	1	-	15	-	500	-	668	/	000	90/00055514
902120/10	-	402	-	1003	-	1	-	11	-	180	-	665	/	000	90/00055681

Accessories for programmable 2-wire transmitter type 707010 in the accessories data sheet 709770

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