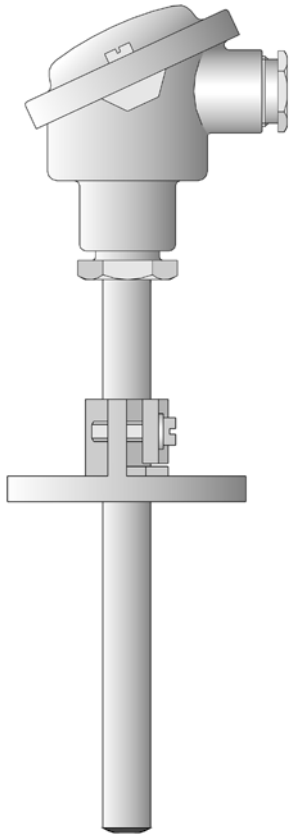
JUMO GmbH & Co. KG
Delivery address: Mackenrodtstraße 14,
36039 Fulda, Germany
Postal address: 36035 Fulda, Germany
Phone: +49 661 6003-0
Fax: +49 661 6003-607
e-mail: mail@jumo.net
Internet: www.jumo.net

JUMO Instrument Co. Ltd.
JUMO House
Temple Bank, Riverway
Harlow, Essex CM20 2DY, UK
Phone: +44 1279 635533
Fax: +44 1279 635262
e-mail: sales@jumo.co.uk
Internet: www.jumo.co.uk

JUMO Process Control, Inc.
8 Technology Boulevard
Canastota, NY 13032, USA
Phone: 315-697-JUMO
1-800-554-JUMO
Fax: 315-697-5867
e-mail: info@jumo.us
Internet: www.jumo.us

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, BBK**
- **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 BBK 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

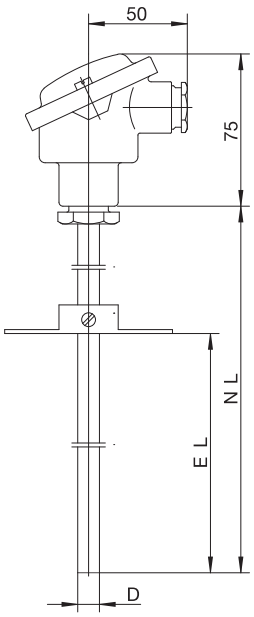
Terminal head	Form B DIN 43729, die-cast aluminum, M 20x1.5; IP65, ambient temperature -40 to +100 °C Form BUZ, die-cast aluminum, M 20x1.5; IP65, ambient temperature -40 to +100 °C Form BUZH, die-cast aluminum, M 20x1.5; IP65, ambient temperature -40 to+ 100 °C Form BBK, plastic, M 20x1.5; IP54, ambient temperature -30 to +130 °C Caution: reduced ambient temperature range when using transmitters, data sheets 70.7010, 70.7030 and 70.7060
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
Sheath	Stainless steel 1.4571, Ø 9 mm, Ø 11 mm, Ø 15 mm
Measuring insert	Replaceable, Pt100 temperature probe, DIN EN 60751, class B, 2-wire circuit
Transmitter	analog transmitter, 4 to 20 mA output, data sheet 70.7030 analog transmitter, 0 to 10 V output, data sheet 70.7030 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)

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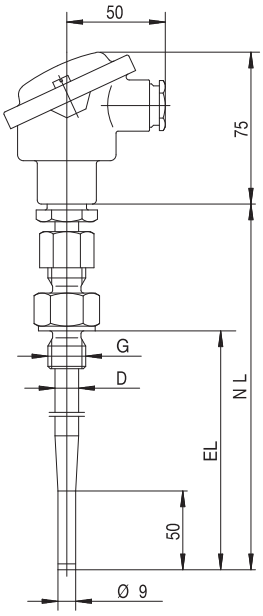
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Dimensions



Basic type 902120/10



Basic type 902120/11

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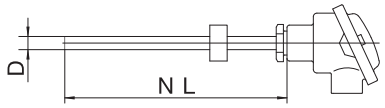
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Order specifications: Push-in RTD temperature probe with connection head form B

(1) Basic type

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



		(2) Operating temperature in °C
x	150	-200 to +600 °C
x	402	-50 to +400 °C (standard)
x	415	-50 to +600 °C
		(3) Measuring insert
x	1001	1x Pt100 in 3-wire-circuit
x	1003	1x Pt100 in 2-wire circuit
x	1011	1x Pt100 in 4-wire circuit
x	2001	2x Pt100 in 3-wire circuit
x	2003	2x Pt100 in 2-wire circuit
		(4) Tolerance class as per DIN EN 60751
x	1	Class B (standard)
x	2	Class A
		(5) Sheath diameter D in mm
x	9	Ø 9 mm
x	11	Ø 11 mm
x	15	Ø 15 mm
		(6) Nominal length NL in mm (100≤NL≤1000)
x	180	180 mm, fitting length (EL) 100 to 140 mm
x	270	270 mm, fitting length (EL) 100 to 230 mm
x	290	290 mm, fitting length (EL) 100 to 250 mm
x	350	350 mm, fitting length (EL) 100 to 310 mm
x	410	410 mm, fitting length (EL) 100 to 370 mm
x	420	420 mm, fitting length (EL) 100 to 400 mm
x	500	500 mm, fitting length (EL) 100 to 460 mm
x	710	710 mm, fitting length (EL) 100 to 670 mm
x	1000	1000 mm, fitting length (EL) 100 to 960 mm
x	...	Specification in plain text (50 mm steps)
		(7) Process connection
x	000	without process connection
x	254	Sheath screw connection G 1/2 (for a 15 mm diameter only)
x	663	Sheet steel flange Ø 9 mm
x	665	Sheet steel flange Ø 11 mm
x	668	Stop flange Ø 15 mm, DIN 43734
		(8) Extra codes
x	000	no extra code
x	320	terminal head Form BUZ
x	321	terminal head Form BUZH
x	322	Connection head form BBK
x	330	1x analog transmitter, 4 to 20 mA[2] output, data sheet 70.7030
x	331	1x transmitter programmable output 4 to 20 mA/20 to 4 mA[3], data sheet 70.7010
x	333	1x analog transmitter, 0 to 10 V[2] output, data sheet 70.7030
x	334	2x analog transmitters, 4 to 20 mA[2] output, data sheet 70.7030
x	335	2x transmitter programmable output 4 to 20 mA/20 to 4 mA[3], data sheet 70.7010
x	337	2x analog transmitters, 0 to 10V [2] output, data sheet 70.7030
x	859	1x Wtrans B programmable head transducer with radio transmission, data sheet 70.7060

	(1)		(2)		(3)		(4)		(5)		(6)		(7)		(8)	
Order code		-		-		-		-		-		-		/		, ...[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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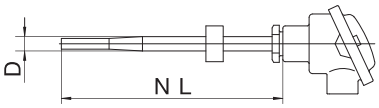
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Order specifications: Push-in RTD temperature probe with connection head form B

(1) Basic type

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



		(2)	**Operating temperature** in °C
x	150		-200 to +600 °C
x	402		-50 to +400 °C (standard)
x	415		-50 to +600 °C
		(3)	**Measuring insert**
x	1001		1x Pt100 in 3-wire-circuit
x	1003		1x Pt100 in 2-wire circuit
x	1011		1x Pt100 in 4-wire circuit
x	2001		2x Pt100 in 3-wire circuit
x	2003		2x Pt100 in 2-wire circuit
		(4)	**Tolerance class as per DIN EN 60751**
x	1		Class B (standard)
x	2		Class A
		(5)	**Sheath diameter D in mm**
x	12		Ø 12 mm stepped down to 9 mm
		(6)	**Nominal length NL in mm (100≤NL≤700)**
x	180		180 mm, fitting length (EL) 100 to 140 mm
x	270		270 mm, fitting length (EL) 100 to 230 mm
x	290		290 mm, fitting length (EL) 100 to 250 mm
x	350		350 mm, fitting length (EL) 100 to 310 mm
x	410		410 mm, fitting length (EL) 100 to 370 mm
x	500		500 mm, fitting length (EL) 100 to 460 mm
x	...		Specification in plain text (50 mm steps)
		(7)	**Process connection**
x	000		without process connection
x	254		Sheath screw-connection G 1/2
		(8)	**Extra codes**
x	000		no extra code
x	320		terminal head Form BUZ
x	321		terminal head Form BUZH
x	322		Connection head form BBK
x	330		1x analog transmitter, 4 to 20 mA[2] output, data sheet 70.7030
x	331		1x transmitter programmable output 4 to 20 mA/20 to 4 mA[3], data sheet 70.7010
x	333		1x analog transmitter, 0 to 10 V[2] output, data sheet 70.7030
x	334		2x analog transmitters, 4 to 20 mA[2] output, data sheet 70.7030
x	335		2x transmitter programmable output 4 to 20 mA/20 to 4 mA[3], data sheet 70.7010
x	337		2x analog transmitters, 0 to 10 V[2] output, data sheet 70.7030
x	859		1x Wtrans B programmable head transducer with radio transmission, data sheet 70.7060

	(1)		(2)		(3)		(4)		(5)		(6)		(7)		(8)	
Order code		-		-		-		-		-		-		/		, ...[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 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