



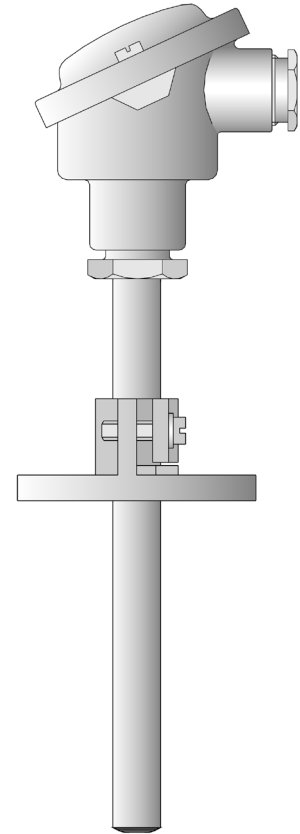
Push-in resistance thermometers with terminal head Form B

- for temperatures from -50 to +600°C
- with replaceable measuring insert
- as single or twin resistance thermometer
- terminal head Form B, BUZ, BUZH, BBK
- available with transmitter

Push-in resistance thermometers are preferred for measuring temperatures in liquids and gases. Applications include HVAC and refrigeration, heating installations, ovens, furnaces and plant engineering, as well as process technology.

The terminal head is suitable for ambient temperatures up to +100°C. Terminal heads Form BUZ, BUZH and BBK are available in addition to the standard Form B.

The measuring insert is normally fitted with a Pt100 temperature sensor to EN 60 751, Class B in 2-wire circuit. Versions with Pt500 or Pt1000 are also available. There is a choice of 3-wire and 4-wire circuit connections. A transmitter can optionally be integrated into the terminal head.



Technical data

Terminal head

Form B DIN 43 729, aluminium die-casting M 20x1.5; IP54, ambient temperature -40 to +100°C

Form BUZ, aluminium die-casting M 20x1.5; IP65, ambient temperature -40 to +100°C

Form BUZH, aluminium die-casting 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 when using transmitters, Data Sheets 70.7030 (95.6530) and 70.7010 (95.6550)

Process connection

plate flange 9mm and 11mm dia., galvanized steel

stop flange 15mm dia., DIN 43 734, cast iron

screwed pipe joint 12mm dia., 15mm dia., stainless steel

Protection tube

stainless steel, 1.4571, 9mm, 11mm and 15mm dia.

Measuring insert

replaceable, Pt100 temperature sensor EN 60 751, Cl. B, 2-wire circuit

Transmitter

analog transmitter, output 4 - 20mA, Data Sheet 70.7030 (95.6530)

analog transmitter, output 0 - 10V, Data Sheet 70.7030 (95.6530)

programmable transmitter, output 4- 20mA/20 - 4mA, Data Sheet 70.7010 (95.6550)

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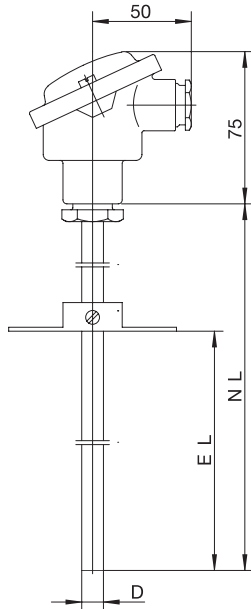
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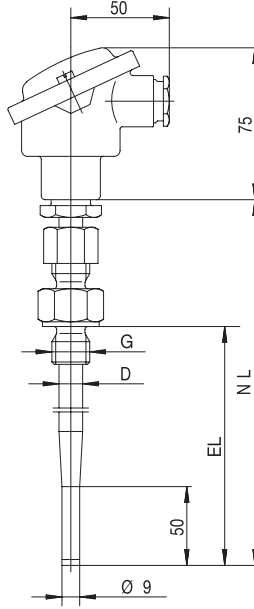
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Dimensions



Type 902102/10



Type 902102/11

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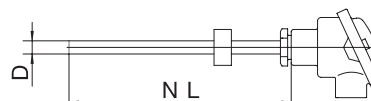
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Order details: Push-in resistance thermometers with terminal head Form B

(1) Basic version

902102/10 Push-in resistance thermometer with continuous protection tube



(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 1 x Pt100 in 3-wire circuit
- x 1003 1 x Pt100 in 2-wire circuit
- x 1011 1 x Pt100 in 4-wire circuit
- x 2001 2 x Pt100 in 3-wire circuit
- x 2003 2 x Pt100 in 2-wire circuit

(4) Tolerance class to EN 60 751

- x 1 Class B (standard)
- x 2 Class A

(5) Protection tube diameter D in mm

- x 9 9mm
- x 11 11mm
- x 15 15mm

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

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

(7) Process connection

- x 000 no process connection
- x 254 screwed pipe joint 1/2" (only for 15mm dia.)
- x 663 plate flange for 9mm dia.
- x 665 plate flange for 11mm dia.
- x 668 stop flange 15mm dia., DIN 43 734

(8) Extra codes

- x 000 no extra code
- x 320 terminal head Form BUZ
- x 321 terminal head Form BUZH
- x 322 terminal head Form BBK
- x 330 1 x analog transmitter, output 4 - 20mA², Data Sheet 70.7030 (95.6530)
- x 331 1 x programmable transmitter, output 4 - 20mA/20 - 4mA³, Data Sheet 70.7010 (95.6550)
- x 333 1 x analog transmitter, output 0 - 10V², Data Sheet 70.7030 (95.6530)
- x 334 2 x analog transmitter, output 4 - 20mA², Data Sheet 70.7030 (95.6530)
- x 335 2 x programmable transmitter, output 4 - 20mA/20 - 4mA³, Data Sheet 70.7010 (95.6550)
- x 337 2 x analog transmitter, output 0 - 10V², Data Sheet 70.7030 (95.6530)

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

Order example 902102/10 - 402 - 1001 - 1 - 9 - 410 - 663 / 000¹

1. List extra codes in sequence, separated by commas.
2. Specify range in plain text.
3. Specify range and output signal in plain text.

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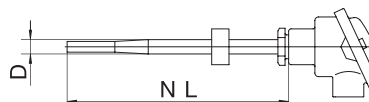
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Order details: Push-in resistance thermometers with terminal head Form B

(1) Basic version

902102/11 Push-in resistance thermometer with stepped protection tube



(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 1 x Pt100 in 3-wire circuit
- x 1003 1 x Pt100 in 2-wire circuit
- x 1011 1 x Pt100 in 4-wire circuit
- x 2001 2 x Pt100 in 3-wire circuit
- x 2003 2 x Pt100 in 2-wire circuit

(4) Tolerance class to EN 60 751

- x 1 Class B (standard)
- x 2 Class A

(5) Protection tube diameter D in mm

- x 12 12mm stepped down to 9mm

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

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

(7) Process connection

- x 000 no process connection
- x 254 screwed pipe joint 1/2"

(8) Extra codes

- x 000 no extra code
- x 320 terminal head Form BUZ
- x 321 terminal head Form BUZH
- x 322 terminal head Form BBK
- x 330 1 x analog transmitter, output 4 - 20mA², Data Sheet 70.7030 (95.6530)
- x 331 1 x programmable transmitter, output 4 - 20mA/20 - 4mA³, Data Sheet 70.7010 (95.6550)
- x 333 1 x analog transmitter, output 0 - 10V², Data Sheet 70.7030 (95.6530)
- x 334 2 x analog transmitter, output 4 - 20mA², Data Sheet 70.7030 (95.6530)
- x 335 2 x programmable transmitter, output 4 - 20mA/20 - 4mA³, Data Sheet 70.7010 (95.6550)
- x 337 2 x analog transmitter, output 0 - 10V², Data Sheet 70.7030 (95.6530)

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

Order example 902102/11 - 402 - 1001 - 1 - 12 - 410 - 000 / 000¹

1. List extra codes in sequence, separated by commas.
2. Specify range in plain text.
3. Specify range and output signal in plain text.

Stock versions

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	Sales No.
902102/10	415	1003	1	15	500	668	000	90/00055514
902102/10	402	1003	1	11	180	665	000	90/00055681