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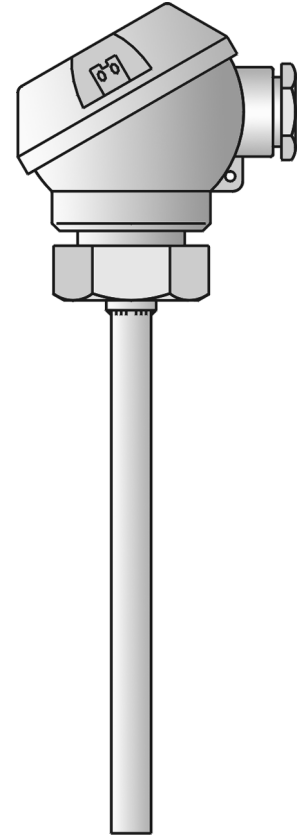


Push-in resistance thermometers with terminal head Form J

- for temperatures from -50 to +400°C
- as single or twin resistance thermometer
- available with transmitter

Push-in resistance thermometers are preferably used for measuring temperatures in liquids and gases. An important selection criterion is their reliable sealing against both positive and negative pressures. Applications include HVAC and refrigeration, as well as heating installations, ovens, furnaces and plant engineering.

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 J, aluminium die-casting, M 16x1.5; IP54, ambient temperature -40 to +100°C
Caution: reduced ambient temperature when using transmitters,
Data Sheet 70.7030

Process connection

plate flange 6mm, 8mm dia., galvanized steel
screwed pipe joint 6mm, 8mm dia., stainless steel
screwed pipe joint, spring-loaded, 8mm dia., spring travel 12mm, stainless steel
stainless steel 1.4571, 6mm, 7mm and 8mm dia.

Protection tube

Measuring insert

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

Transmitter

analog transmitter, output 4 - 20mA, Data Sheet 70.7030

Accessories

pocket, see Data Sheet 90.2440 and 90.9721

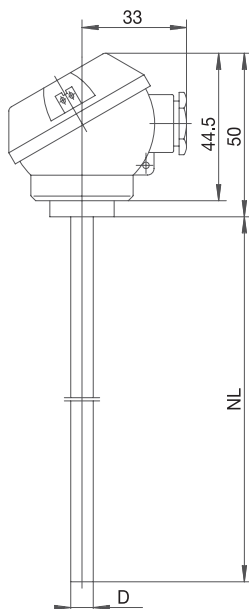
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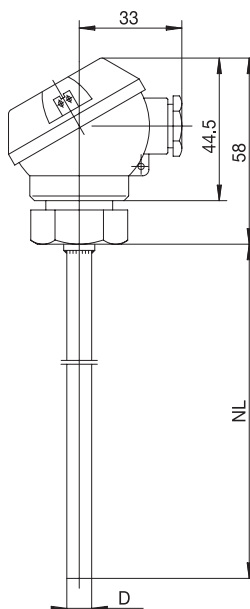
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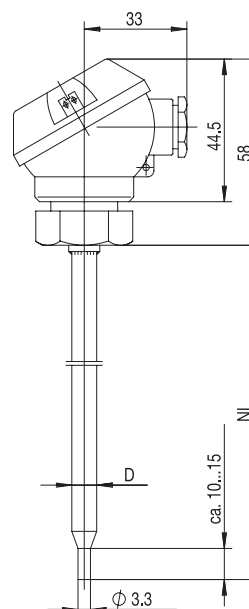
Dimensions



Type 902103/10



Type 902103/20



Type 902103/31

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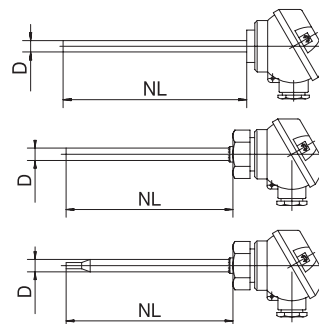
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Order details: Push-in resistance thermometers with terminal head Form J

(1) Basic version

	902103/10	Push-in resistance thermometer with continuous protection tube, ≤ 7mm dia.	
	902103/20	Push-in resistance thermometer with continuous protection tube, > 7mm dia.	
	902103/31	Push-in resistance thermometer with stepped protection tube for measurement in air	
	(2) Operating temperature in °C		
x	378	-50 to +180°C	
x	380	-50 to +200°C	
x	402	-50 to +400°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	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	6	6mm	
x	7	7mm	
	x	8	8mm
	(6) Nominal length NL in mm (50 ≤ NL ≤ 1000)		
x	50	50mm	
x	100	100mm	
x	150	150mm	
x	250	250mm	
x	290	290mm	
x	...	please specify in plain text (50mm steps)	
	(7) Process connection		
x	000	no process connection	
x	245	screwed pipe joint 1/2", spring-loaded, spring travel 12mm (for 8mm dia. only, Tmax. 180°C)	
x	252	screwed pipe joint 1/4" (only for 6mm dia.)	
x	254	screwed pipe joint 1/2" (only for 6mm or 8mm dia.)	
x	662	plate flange 6mm dia.	
	x	667	plate flange 8mm dia.
	(8) Extra codes		
x	000	no extra code	
x	330	1 x analog transmitter, output 4 - 20mA ² , Data Sheet 70.7030	



Order code (1) (2) (3) (4) (5) (6) (7) (8)

Order example 902103/10 - 402 - 1001 - 1 - 6 - 100 - 000 / 000

2. please specify range in plain text

Stock versions

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	Sales No.
902103/10	- 402	- 1003	- 1	- 6	- 150	- 000	/ 000	90/00063620
902103/10	- 402	- 1003	- 1	- 6	- 250	- 000	/ 000	90/00063622
902103/31	- 380	- 1003	- 1	- 6	- 290	- 000	/ 000	90/00438399