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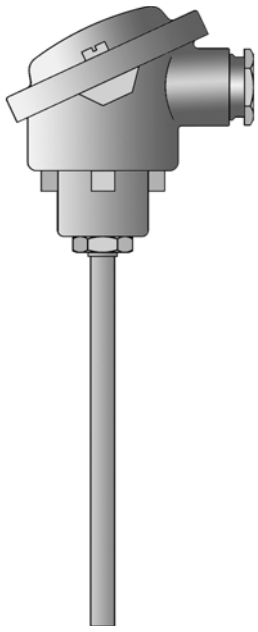
JUMO Etemp B

Push-in RTD temperature probe with connection head form B for standard applications

- Temperature range from -50 to +400 °C
- With built-in measuring insert
- As single or double RTD temperature probes
- Terminal head form B or BUZ
- Available with transmitter



Basic type 902123/10

Brief description

Push-in RTD temperature probes for standard applications are preferentially used for measuring temperatures in liquids and gases. The application areas are, among others, in the air conditioning technology and refrigeration engineering as well as the HVAC and apparatus engineering sector.

The connection head is suitable for ambient temperatures up to +100 °C. In addition to the standard connection head form B, design BUZ is also available.

The measuring insert is normally fitted with a Pt100 temperature sensor according to DIN EN 60751, Class B in 2-wire circuit; versions with Pt500 or Pt1000 temperature sensors can also be supplied, as well as 4-wire circuit connections. A transmitter can be optionally integrated into the connection head.

Technical data

Terminal head	Form B DIN EN 50446, 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 Reduced ambient temperature when using transmitters, data sheet 707030 and 707010
Protection tube	Stainless steel 1.4571, ∅ 6 mm, ∅ 8 mm
Measuring insert	Pt100 temperature sensor DIN EN 60751, cl. B, 2-wire circuit, built-in
Response times	$t_{0.5}$ = 5 s, $t_{0.9}$ = 14 s in water 0.4 m/s; ∅ 6 mm
Transmitter	Analog transmitter, output 4 to 20 mA, data sheet 707030 Analog transmitter, output 0 to 10 V, data sheet 707030 Programmable transmitter, output 4 to 20 mA/20 to 4 mA, data sheet 707010
Accessories	Process connection, tube screw connection ∅ 6 mm, ∅ 8 mm Process connection, sheet steel flange ∅ 6 mm, ∅ 8 mm

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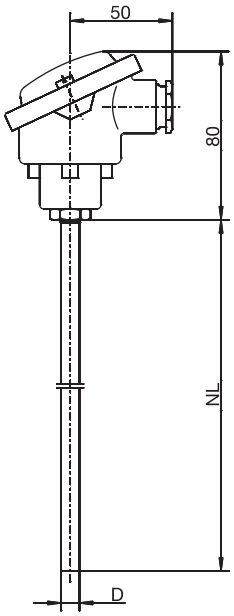
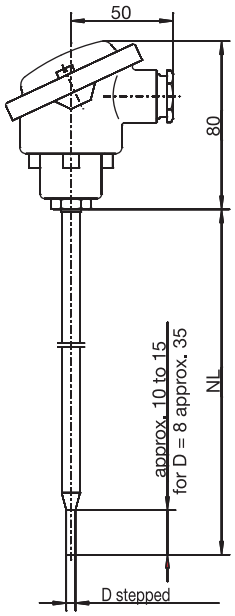
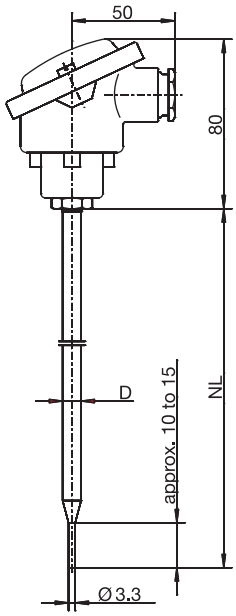
Dimensions



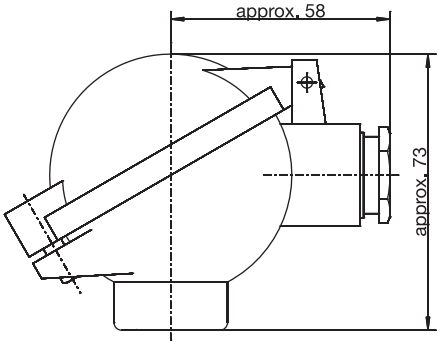
Basic type 902123/10



Basic type 902123/11



Basic type 902123/31



Terminal head form BUZ
Extra code 320

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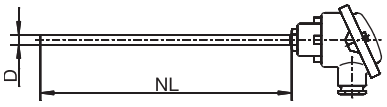
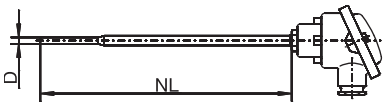
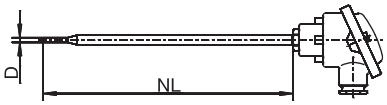
Order details

				(1)	**Basic type**
			902123/10		JUMO Etemp B Push-in RTD temperature probes with terminal head form B and with continuous sheath
			902123/11		JUMO Etemp B Push-in RTD temperature probes with terminal head form B and with stepped sheath (for ∅ 6 mm on ∅ 3.8 mm/for ∅ 8 mm on ∅ 6 mm)
			902123/31		JUMO Etemp B Push-in RTD temperature probes with terminal head form B and with stepped sheath for air measurement
				(2)	**Operating temperature in °C**
x	x	x	380		-50 to +200 °C (standard)
x	x		386		-50 to +260 °C
x	x		402		-50 to +400 °C
x	x		647		-20 to +150 °C (only in connection with class B and 1x Pt100 in 2-wire circuit)
				(3)	**Measuring insert**
x	x	x	1003		1x Pt100 in 2-wire circuit
x	x	x	1011		1x Pt100 in 4-wire circuit
x	x	x	2003		2x Pt100 in 2-wire circuit
				(4)	**Tolerance class as per DIN EN 60751**
x	x	x	1		Class B (standard)
x	x	x	2		Class A
x	x	x	3		Class AA (1/3 DIN B)
				(5)	**Sheath diameter D in mm**
x	x	x	6		∅ 6 mm
x	x		8		∅ 8 mm
				(6)	**Nominal length NL in mm (NL 50 to 1000 mm, max. 800 mm for basic types 902123/11 and 902123/31)**
x			50		50 mm
x	x	x	100		100 mm
x	x	x	200		200 mm
x	x	x	...		Please specify in plain text (50 mm steps)
				(7)	**Extra codes**
x	x	x	000		none
x	x	x	320		terminal head Form BUZ
x	x	x	330		1x transmitter, analog output 4 to 20 mA[a], data sheet 707030
x	x	x	331		1x programmable transmitter, 4 to 20 mA output[b], data sheet 707010
x	x	x	333		1x transmitter, analog output 0 to 10 V[a], data sheet 707030







[a] Specify measuring range in plain text.
[b] Specify measuring range and output signal in plain text.

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	(1)		(2)		(3)		(4)		(5)		(6)		(7)	
Order code		-		-		-		-		-		/		, ...[a]
Order example	902123/10	-	380	-	1003	-	1	-	6	-	100	/	000	

[a] State extra codes one after another, separated by commas.

Accessories process connection

Article	Sales No.
Tube screw connection G 1/4 for sheath diameter 6 mm	90/00080811
Tube screw connection G 3/8 for sheath diameter 6 mm	90/00057945
Tube screw connection G 3/8 for sheath diameter 8 mm	90/00088927
Tube screw connection G 1/2 for sheath diameter 6 mm	90/00305445
Tube screw connection G 1/2 for sheath diameter 8 mm	90/00371506
Tube screw connection M 10x1 for sheath diameter 6 mm	90/00065416
Tube screw connection 1/2-14NPT for sheath diameter 6 mm	90/00444210
Tube screw connection 1/2-14NPT for sheath diameter 8 mm	90/00361956
Sheet steel flange for sheath diameter 6 mm	90/00065062
Sheet steel flange for sheath diameter 8 mm	90/00068165

For further process connections refer to data sheet 909750.

Stock versions

(1)		(2)		(3)		(4)		(5)		(6)		(7)	Sales No.:
902123/10	-	380	-	1003	-	1	-	6	-	250	/	000	90/00542850
902123/10	-	402	-	1003	-	1	-	6	-	250	/	000	90/00542851
902123/10	-	402	-	1003	-	1	-	6	-	300	/	000	90/00542852