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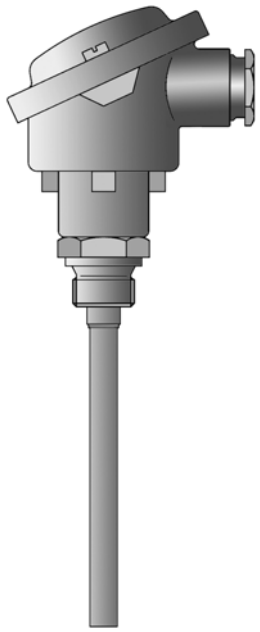
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JUMO Etemp B

Screw-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 902023/10

Brief description

Screw-in RTD temperature probes for standard applications are preferentially used for measuring temperatures in liquids and gases. A decisive selection criterion is the reliable sealing feature of this installation type with vacuum and with overpressure. 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

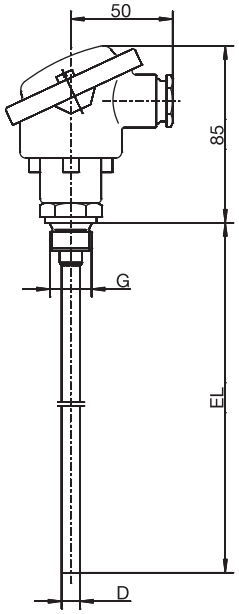
Terminal head	Form B DIN EN 50446, die-cast aluminum, M 20x1.5; IP65, ambient temperature -40 to +100 °C Form BUZ, die-cast aluminum, M 20x1.5; IP65, ambient temperature -40 to +100 °C Reduced ambient temperature when using transmitters, data sheet 707030 and 707010
Process connection	thread, stainless steel 1.4571
Sheath	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	sheath, data sheet 909710

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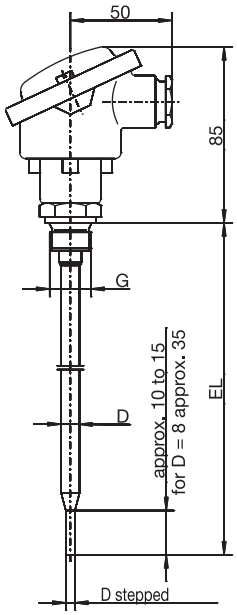
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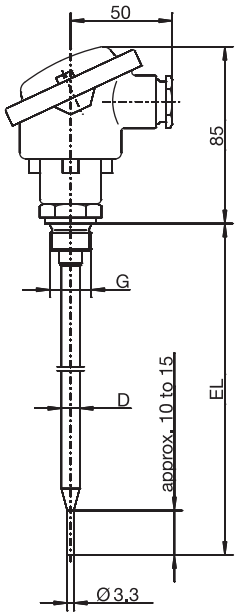
Dimensions



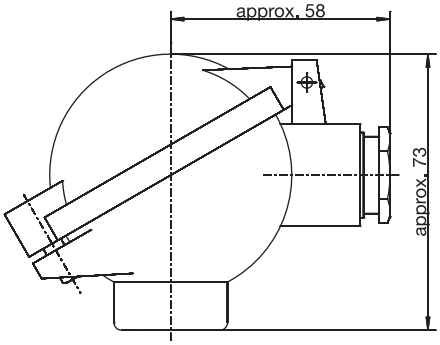
Basic type 902023/10



Basic type 902023/11



Basic type 902023/31



terminal head Form BUZ
Extra code 320

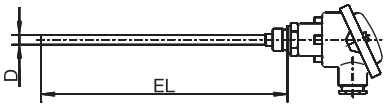
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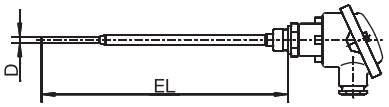
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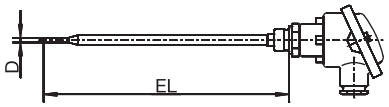
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Order details

				(1)	**Basic type**
			902023/10		JUMO Etemp B Screw-in RTD temperature probes with terminal head form B and with continuous sheath
			902023/11		JUMO Etemp B Screw-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)
			902023/31		JUMO Etemp B Screw-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)	**Fitting length EL in mm (EL 50 to 1000 mm, max. 800 mm for basic types 902023/11 and 902023/31)**
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)	**Process connection**
x	x	x	102		Screw connection G 1/4
x	x	x	103		Screw connection G 3/8
x	x	x	104		Screw connection G 1/2
x	x	x	126		Screw connection M 18x1.5
x	x	x	128		Screw connection M 20x1.5
x	x	x	144		Screw connection (thread) 1/2-14NPT







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				(8)	**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.

	(1)		**(2)**		**(3)**		**(4)**		**(5)**		**(6)**		**(7)**		**(8)**	
Order code		-		-		-		-		-		-		/		, ...[a]
Order example	902023/10	-	380	-	1003	-	1	-	6	-	100	-	104	/	000	

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

Stock versions

(1)		**(2)**		**(3)**		**(4)**		**(5)**		**(6)**		**(7)**		**(8)**	**Sales No.:**
902023/10	-	380	-	1003	-	1	-	6	-	100	-	104	/	000	90/00543945
902023/10	-	380	-	1003	-	1	-	6	-	150	-	104	/	000	90/00542800
902023/10	-	380	-	1003	-	1	-	6	-	300	-	104	/	000	90/00542801
902023/10	-	402	-	1003	-	1	-	6	-	100	-	104	/	000	90/00543946
902023/10	-	402	-	1003	-	1	-	6	-	150	-	104	/	000	90/00542802
902023/10	-	402	-	1003	-	1	-	6	-	300	-	104	/	000	90/00542803
902023/10	-	402	-	1003	-	1	-	6	-	100	-	104	/	331(0 to 100 °C)	90/00544265
902023/31	-	380	-	1003	-	1	-	6	-	250	-	104	/	000	90/00542804