

# Temperature sensor TJ-B

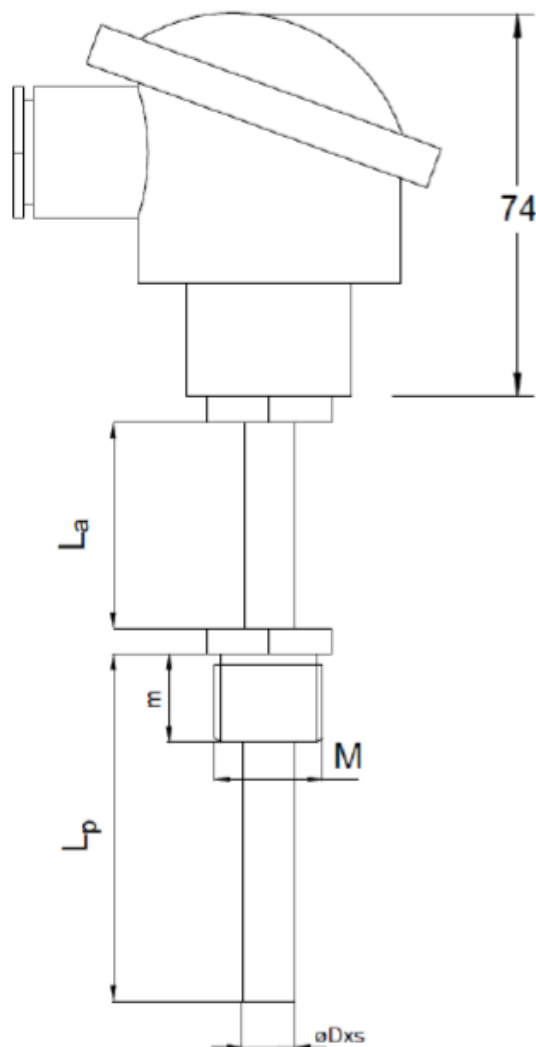
Temperature sensor TJ-B consists of replaceable or non-replaceable measurement insert, outer protection tube with neck and aluminum connection head (which contains terminal block or temperature transducer).

Sensor is designed to be screw-fitted either directly into the process or a thermowell. TJ-B is suitable to measure temperature in liquid and gaseous media under moderate mechanical load and non-aggressive chemical conditions.

## Technical information

### Dimensions and treads

D x s	M	m
4 x 0.35	M10 x 1	11
4 x 1	M12 x 1	
5 x 0.5	G $\frac{1}{4}$	14
6 x 1	M14 x 1,5	
8 x 1.5	M16 x 1,5	15
10 x 1,5	G $\frac{1}{2}$	
12 x 2	M27 x 2	16
14 x 2	G $\frac{3}{4}$	



# Temperature sensor TJ-B

## Product code

1	<input type="text"/>	<b>Sensing element quantity</b>	
			Single Pt100, Pt1000, K, J...
		2	Double Pt100, Pt1000, K, J...
2	<input type="text"/>	<b>Sensing element</b>	
		Pt100	Pt100
		Pt1000	Pt1000
		K	K type thermocouple
		J	J type thermocouple
			other parameters acc. to requirement
3	<input type="text"/>	<b>Accuracy</b>	
		A or B	for measuring resistor
		1 or 2	for thermocouple
			other parameters acc. to requirement
4	<input type="text"/>	<b>Diameter of protective tube <math>\varnothing D</math>, mm</b>	
		6	$\varnothing 6$ mm
		8	$\varnothing 8$ mm
		10	$\varnothing 10$ mm
			other parameters acc. to requirement
5	<input type="text"/>	<b>Length of protective tube <math>L_p</math>, mm</b>	
		50	50 mm
		100	100 mm
		150	150 mm
		200	200 mm
		250	250 mm
			other parameters acc. to requirement
6	<input type="text"/>	<b>Neck length <math>L_a</math>, mm</b>	
			Without neck length
		50	50 mm
		100	100 mm
7	<input type="text"/>	<b>Dimension of process connection thread M</b>	
		G1/2	G1/2"
		G1/4	G1/4"
		M20x1,5	M20 x 1,5
			other parameters acc. to requirement
8	<input type="text"/>	<b>Protection tube material</b>	
		304	Stainless steel 1.4301 (AISI 304)
		316L	Stainless steel 1.4404 (AISI 316L)
			other parameters acc. to requirement
9	<input type="text"/>	<b>Measurement circuit (for resistor)</b>	
		2	2-wire
		3	3-wire
		4	4-wire

# Temperature sensor TJ-B

10	□	<b>Measuring insert type</b>	
			Without insert
		P	With pipe insert
		M	With mineral insulated insert
			other parameters acc. to requirement
11	□	<b>Temperature range</b>	
		-30+180	-30...180 °C
		-30+250	-30...250 °C
		-30+400	-30...400 °C
			other parameters acc. to requirement
12	□	<b>Transmitter output type</b>	
			with terminal block
		420	4...20 mA
		HART	4...20 mA +HART
		10	0...10 V
		485	RS-485
		LINK	IO-LINK
			other parameters acc. to requirement

	1	2	3		4		5		6	7		8	9	10	11		12
<b>TJB</b>				-		x		+			-					/	

e.g. **TJB2Pt1000A-6x1000+100M20x1.5-316L3P-30+400/420**

Temperature sensor **TJ-B** with **double Pt1000** class **A** sensor, protection tube diameter **ø6**, protection tube length **1000 mm** with neck length **100 mm**, process connection **M20 x 1.5**, protection tube material **1.4404**, measuring circuit **3** wire, sensor type with **P** pipe insert, measuring temperature range **-30...400 °C**, with transmitter output **4...20 mA**.