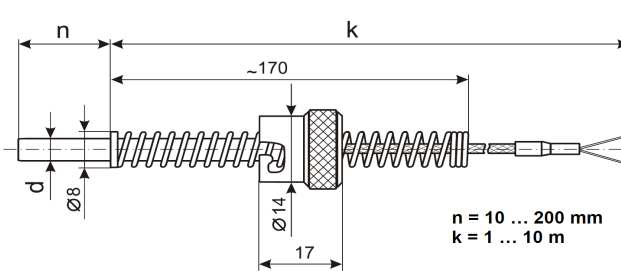
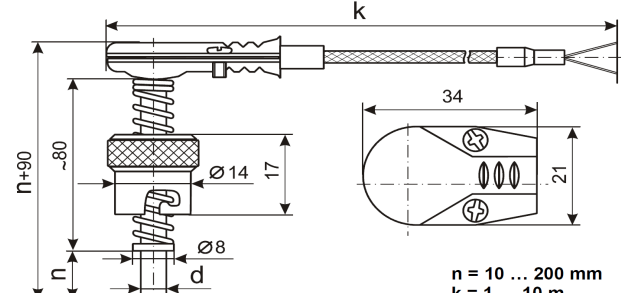
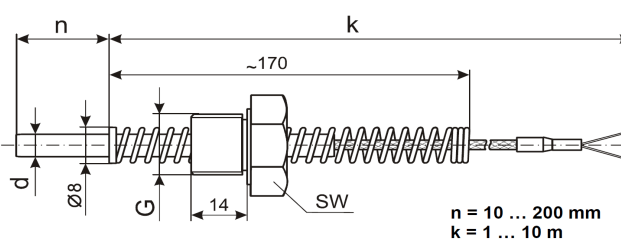
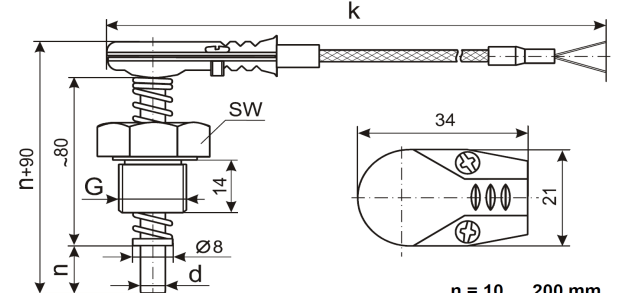


## Termorezistenta si termistor tip TSB

<b>RTD BAYONET CABLE PROBE</b> Sheath - stainless steel (see table notes) Cable - see table notes	Bx (TSBx)		SENSITIVE ELEMENT	CABLE TYPE	TEMPERATURE RANGE	DIMENSIONS																														
						d [mm]	wires																													
<div style="text-align: center;"> <b>STRAIGHT-TUBE DESIGN (B)</b>  <p style="text-align: right;">n = 10 ... 200 mm k = 1 ... 10 m</p> </div> <div style="text-align: center; margin-top: 20px;"> <b>DESIGN WITH ANGLED TERMINATION (BL)</b>  <p style="text-align: right;">n = 10 ... 200 mm k = 1 ... 10 m</p> </div> <div style="text-align: center; margin-top: 20px;"> <b>STRAIGHT DESIGN WITH MOVABLE CONNECTION (BG)</b>  <p style="text-align: right;">n = 10 ... 200 mm k = 1 ... 10 m</p> </div> <div style="text-align: center; margin-top: 20px;"> <b>ANGLED DESIGN WITH MOVABLE CONNECTION (BGL)</b>  <p style="text-align: right;">n = 10 ... 200 mm k = 1 ... 10 m</p> </div>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">1 x Pt (RB,RD,RF,RG)</td> <td style="text-align: center;">SLSL, TSL, TT YY, UU, YU</td> <td style="text-align: center;">T7 0...200 °C T9 -50...200 °C</td> <td style="text-align: center;">4, 4.5, 5 6</td> <td style="text-align: center;">2, 3* 2, 3, 4*</td> </tr> <tr> <td style="text-align: center;">2 x Pt (RB,RD,RF,RG)</td> <td style="text-align: center;">SLSL, TSL, TT, GLGL</td> <td style="text-align: center;">T1 -50...400 °C T8 0...400 °C</td> <td style="text-align: center;">8</td> <td style="text-align: center;">2, 3, 4</td> </tr> <tr> <td style="text-align: center;">1 x Cu (RH, RK)</td> <td style="text-align: center;">GLGL, SFSF TT, TSL, SLSL</td> <td style="text-align: center;">T11* -50...600 °C T22 -200...200 °C</td> <td style="text-align: center;">6, 8</td> <td style="text-align: center;">2x2, 2x3*</td> </tr> <tr> <td style="text-align: center;">2 x Cu (RH, RK)</td> <td style="text-align: center;">SLSL, TSL, YY, UU, YU</td> <td style="text-align: center;">T9 -50...200 °C</td> <td style="text-align: center;">5* 6 8</td> <td style="text-align: center;">2, 3* 2, 3, 4* 2, 3, 4</td> </tr> <tr> <td style="text-align: center;">1 x PTC (RP, RQ)</td> <td style="text-align: center;">GLGL, TT</td> <td style="text-align: center;">T7 0...200 °C</td> <td style="text-align: center;">6, 8</td> <td style="text-align: center;">2x2, 2x3*</td> </tr> <tr> <td style="text-align: center;">2 x PTC (RP, RQ)</td> <td style="text-align: center;">SLSL, TSL, YY, UU, YU</td> <td style="text-align: center;">T12 -50...100 °C</td> <td style="text-align: center;">6</td> <td style="text-align: center;">2, 3</td> </tr> <tr> <td style="text-align: center;">2 x PTC (RP, RQ)</td> <td style="text-align: center;">GLGL, TT</td> <td style="text-align: center;">T19 0...100 °C</td> <td style="text-align: center;">8</td> <td style="text-align: center;">2x2</td> </tr> </table>	1 x Pt (RB,RD,RF,RG)	SLSL, TSL, TT YY, UU, YU	T7 0...200 °C T9 -50...200 °C	4, 4.5, 5 6	2, 3* 2, 3, 4*	2 x Pt (RB,RD,RF,RG)	SLSL, TSL, TT, GLGL	T1 -50...400 °C T8 0...400 °C	8	2, 3, 4	1 x Cu (RH, RK)	GLGL, SFSF TT, TSL, SLSL	T11* -50...600 °C T22 -200...200 °C	6, 8	2x2, 2x3*	2 x Cu (RH, RK)	SLSL, TSL, YY, UU, YU	T9 -50...200 °C	5* 6 8	2, 3* 2, 3, 4* 2, 3, 4	1 x PTC (RP, RQ)	GLGL, TT	T7 0...200 °C	6, 8	2x2, 2x3*	2 x PTC (RP, RQ)	SLSL, TSL, YY, UU, YU	T12 -50...100 °C	6	2, 3	2 x PTC (RP, RQ)	GLGL, TT	T19 0...100 °C	8	2x2
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	<b>Sheath material:</b> 1.4301 (M1), 1.4541 (M2), 1.4571 (M3), 1.4404 (M9)																																			
	<b>Cable type:</b> - GLGLP(V) (glass fiber w/ steel braid, max. 400 °C ambient temperature) - SLSL or TSL (silicone, max. 250 °C ambient temperature) - TT (Teflon®, max. 250 °C ambient temperature) - YY (PVC, max. 100 °C ambient temperature) - UU or YU (PUR, max. 80 °C ambient temperature) - SFSF (mineral fiber, max. 1000 °C ambient temperature)																																			
<b>Applicable cables:</b> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="text-align: left;">Temp. range</th> <th style="text-align: center;">Probe design</th> <th style="text-align: center;">B, BG</th> <th style="text-align: center;">BL, BGL</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">T12, T19</td> <td></td> <td style="text-align: center;">all</td> <td style="text-align: center;">all</td> </tr> <tr> <td style="text-align: center;">T7, T9</td> <td></td> <td style="text-align: center;">no PUR, no PVC</td> <td style="text-align: center;">all</td> </tr> <tr> <td style="text-align: center;">T22</td> <td></td> <td style="text-align: center;">TT</td> <td style="text-align: center;">TT, SLSL, TSL</td> </tr> <tr> <td style="text-align: center;">T1, T8</td> <td></td> <td style="text-align: center;">GLGLP, SFSF</td> <td style="text-align: center;">no PUR, no PVC</td> </tr> <tr> <td style="text-align: center;">T11</td> <td></td> <td style="text-align: center;">SFSF</td> <td style="text-align: center;">GLGLP, SFSF</td> </tr> </tbody> </table>								Temp. range	Probe design	B, BG	BL, BGL	T12, T19		all	all	T7, T9		no PUR, no PVC	all	T22		TT	TT, SLSL, TSL	T1, T8		GLGLP, SFSF	no PUR, no PVC	T11		SFSF	GLGLP, SFSF					
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<b>Tip shape:</b> standard, narrowed, pitted (see Appendix - Tip shapes)																																				
<b>Accuracy class:</b> 'A', 'B', or '2xB' (see Appendix - RTD Tolerance)																																				
<b>Cable connector:</b> 4-pin (C3) (see Appendix - Connectors)																																				
<b>Bayonet:</b> ø13x1... ø20x1; aluminum, brass, or stainless steel																																				
<b>Available threads and HEX sizes:</b> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>G</th> <th>M8</th> <th>M10 1/8"</th> <th>M12 1/4"</th> <th>M14</th> <th>M16 3/8"</th> <th>M18</th> <th>M20 1/2"</th> </tr> </thead> <tbody> <tr> <td>SW</td> <td>10</td> <td>12(13)</td> <td>14</td> <td>17</td> <td>19</td> <td>22</td> <td>24</td> </tr> </tbody> </table>								G	M8	M10 1/8"	M12 1/4"	M14	M16 3/8"	M18	M20 1/2"	SW	10	12(13)	14	17	19	22	24													
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[www.automatizariindustriale.ro](http://www.automatizariindustriale.ro)

**Ordering code** TSB(L,G,GL) - G1G2.G3.G4.G5'G5".G6.G8.G9.G10.G11.G12.G14.G15 - #1

Code	Feature or option	Code values	
G1	Number of RTD sensors	1 or 2	
G2	Sensor	RB - Pt50, RD - Pt100, RF - Pt500, RG - Pt1000, RH - Cu50, RK - Cu100, RP - PTC 1k, RQ - PTC 2k	
G3	Temperature range	T1 - -50...400 °C, T7 - 0...200 °C, T8 - 0...400 °C, T9 - -50...200 °C, T11 - -50...600 °C <sup>(1,4,6)</sup> , T12 - 50...100 °C, T19 - 0...100 °C, T22 - -200...200 °C	
G4	Diameter 'd' [mm]	RTD	4, 5, 6, 8
		MI RTD <sup>(1)</sup>	4.5, 6, 8 <sup>(6)</sup>
G5'	Bayonet size <sup>(2)</sup>	13 - ø13x1, 14 - ø14x1, 15 - ø15x1, 17 - ø17x1, 20 - ø20x1, Z - other (specify!)	
G5"	Bayonet material <sup>(2)</sup>	AL - aluminum, BR - brass, SS - stainless steel	
G6	Probe length 'n' [mm]	10...200	
G8	Cable length 'k' [m] and type	1GL...10GL - glass fiber, 1SL...10SL - silicone, 1TF...10TF - Teflon®, 1PU...10PU - polyurethane <sup>(6)</sup> , 1MF...10MF - mineral fiber, 1PV...10PV - PVC	
G9	Mounting connection <sup>(3)</sup>	Q0 - M16x1.5, Q1 - M18x1.5, Q2 - M20x1.5, Q3 - G3/8", Q4 - G1/2", Q7 - M12x1.5, Q8 - M14x1.5, Q10 - 1/2" NPT, Q18 - G1/8", Q19 - 1/8" NPT, Q20 - M10x1, Q23 - G1/4", Q24 - 1/4" NPT, Q26 - M8x1, Q29 - M8x1.25, Q30 - M10x1.5, Q31 - M6x1, Uxx - union nut (xx - same as for Qxx)	
G10	Sheath material (wetted parts)	M1 - 1.4301, M2 - 1.4541, M3 - 1.4571, M9 - 1.4404	
G11	Accuracy class	X - none (for non Pt sensors), A - 'A', B - 'B', C - '2xB'	
G12	Number of wires	2, 3, 4 <sup>(6)</sup>	
G14	Tip shape	X - standard closed, N - narrowed <sup>(5)</sup> , P - pitted <sup>(5)</sup>	
G15	Connector	X - none, C3 - 4-pin male plug-in connector ø8 (for H5700 thermometer only)	
#1	Options	X - none, OV - vibration proof (MgO or Silicone filled) <sup>(5)</sup> , OS - cable protection SS spring (≈ 50 mm) <sup>(1)</sup> , OB - braid termination lead (only w/o connector), OP - electrochemically polished sheath surface <sup>(5)</sup>	

<sup>(1)</sup> Only for TSBL and TSBGL!

<sup>(2)</sup> Only for TSB and TSBL!

<sup>(3)</sup> Only for TSBG and TSBGL!

<sup>(4)</sup> Available only with MI sheath!

<sup>(5)</sup> Only for non-MI (normal) sheath types!

<sup>(6)</sup> Contact

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