

RTD BAYONET CABLE PROBE Sheath - stainless steel (see table notes) Cable - see table notes	Bx(BTSBx)	SENSITIVE ELEMENT	CABLE TYPE	TEMPERATURE RANGE	DIMENSIONS																																								
					d [mm]	wires																																							
<p><b>STRAIGHT-TUBE DESIGN (B)</b></p> <p>n = 10 ... 200 mm k = 1 ... 10 m</p> <p><b>DESIGN WITH ANGLED TERMINATION (BL)</b></p> <p>n = 10 ... 200 mm k = 1 ... 10 m</p> <p><b>STRAIGHT DESIGN WITH MOVABLE CONNECTION (BG)</b></p> <p>n = 10 ... 200 mm k = 1 ... 10 m</p> <p><b>ANGLED DESIGN WITH MOVABLE CONNECTION (BGL)</b></p> <p>n = 10 ... 200 mm k = 1 ... 10 m</p>	<p>1 x Pt (RB,RD,RF,RG)</p> <p>2 x Pt (RB,RD,RF,RG)</p> <p>1 x Cu (RH, RK)</p> <p>2 x Cu (RH, RK)</p> <p>1 x PTC (RP, RQ)</p> <p>2 x PTC (RP, RQ)</p>	<p>SLSL, TSL, TT YY, UU, YU</p> <p>SLSL, TSL, TT, GLGL</p> <p>GLGL, SFSF TT, TSL, SLSL</p> <p>SLSL, TSL, YY, UU, YU</p> <p>GLGL, TT</p> <p>SLSL, TSL, YY, UU, YU</p> <p>GLGL, TT</p>	<p>T7 0...200 °C T9 -50...200 °C</p> <p>T1 -50...400 °C T8 0...400 °C</p> <p>T11* -50...600 °C T22 -200...200 °C</p> <p>T9 -50...200 °C</p> <p>T7 0...200 °C</p> <p>T12 -50...100 °C</p> <p>T19 0...100 °C</p>	<p>4, 4.5, 5 6 8</p> <p>6, 8</p> <p>5* 6 8</p> <p>6, 8</p> <p>6 8</p>	<p>2, 3* 2, 3, 4* 2, 3, 4</p> <p>2x2, 2x3*</p> <p>2, 3* 2, 3, 4* 2, 3, 4</p> <p>2x2, 2x3*</p> <p>2, 3 2x2</p>																																								
	<p><b>Sheath material:</b> 1.4301 (M1), 1.4541 (M2), 1.4571 (M3), 1.4404 (M9)</p> <p><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)</p> <p><b>Applicable cables:</b></p> <table border="1"> <thead> <tr> <th>Temp. range</th> <th>Probe design</th> <th>B, BG</th> <th>BL, BGL</th> </tr> </thead> <tbody> <tr> <td>T12, T19</td> <td></td> <td>all</td> <td>all</td> </tr> <tr> <td>T7, T9</td> <td></td> <td>no PUR, no PVC</td> <td>all</td> </tr> <tr> <td>T22</td> <td></td> <td>TT</td> <td>TT, SLSL, TSL</td> </tr> <tr> <td>T1, T8</td> <td></td> <td>GLGLP, SFSF</td> <td>no PUR, no PVC</td> </tr> <tr> <td>T11</td> <td></td> <td>SFSF</td> <td>GLGLP, SFSF</td> </tr> </tbody> </table> <p><b>Tip shape:</b> standard, narrowed, pitted (see Appendix - Tip shapes)</p> <p><b>Accuracy class:</b> 'A', 'B', or '2xB' (see Appendix - RTD Tolerance)</p> <p><b>Cable connector:</b> 4-pin (C3) (see Appendix - Connectors)</p> <p><b>Bayonet:</b> Ø13x1... Ø20x1; aluminum, brass, or stainless steel</p> <p><b>Available threads and HEX sizes:</b></p> <table border="1"> <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>					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	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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BASI reserves the right of changing specifications without prior notice!

# temperature probes

## Ordering code B T S B (L, G, GL) - G1 G2. 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 BTSBL and BTSBGL!

<sup>(2)</sup> Only for B T S B and B T S B L!

<sup>(3)</sup> Only for B T S B G and B T S B G L!

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

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

<sup>(6)</sup> Contact BASI!

T/C BAYONET CABLE PROBE Sheath - stainless steel (see table notes) Cable - see table notes	Bx(BTSBx)	SENSITIVE ELEMENT	CABLE TYPE	TEMPERATURE RANGE	DIMENSIONS																																
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	<p><b>Sheath material:</b> 1.4301 (M1), 1.4541 (M2), 1.4571 (M3), 1.4404 (M9), 1.4841 (M5), 2.4816 (M8)</p> <p><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)</p> <p><b>Applicable cables:</b></p> <table border="1"> <thead> <tr> <th>Probe design</th> <th>B, BG</th> <th>BL, BGL</th> </tr> </thead> <tbody> <tr> <td>Temp. range</td> <td></td> <td></td> </tr> <tr> <td>T7, T9</td> <td>no PUR, no PVC</td> <td>all</td> </tr> <tr> <td>T1, T8</td> <td>GLGLP, SFSF</td> <td>no PUR, no PVC</td> </tr> <tr> <td>T3, T4</td> <td>SFSF</td> <td>GLGLP, SFSF</td> </tr> </tbody> </table> <p><b>Tip shape:</b> standard (isolated), grounded, open-tube, exposed (see Appendix - Tip shapes)</p> <p><b>Accuracy class:</b> '1' or '2' (see Appendix - T/C Tolerance)</p> <p><b>Cable connector:</b> 4-pin (C3), 'T/C standard' (C5) or 'T/C miniature' (C6) (see Appendix - Connectors)</p> <p><b>Bayonet:</b> Ø13x1... Ø20x1; aluminum, brass, or stainless steel</p> <p><b>Available threads and HEX sizes:</b></p> <table border="1"> <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>						Probe design	B, BG	BL, BGL	Temp. range			T7, T9	no PUR, no PVC	all	T1, T8	GLGLP, SFSF	no PUR, no PVC	T3, T4	SFSF	GLGLP, SFSF	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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# temperature probes

## Ordering code BTSB(L,G,GL) - G2.G3.G4.G5'G5".G6.G8.G9.G10.G11.G14.G15 - #1

Code	Feature or option	Code values	
<b>G2</b>	Thermocouple	<b>J</b> - T/C type "J", <b>K</b> - T/C type "K", <b>T</b> - T/C type "T", <b>N</b> - MI T/C type "N" <sup>(1)</sup> , <b>E</b> - MI T/C type "E" <sup>(1)</sup> , <b>T</b> - MI T/C type "T" <sup>(1)</sup>	
<b>G3</b>	Temperature range	<b>T1</b> - -50...400 °C, <b>T3</b> - 0...850 °C <sup>(5)</sup> , <b>T4</b> - 0...800 °C <sup>(5)</sup> , <b>T7</b> - 0...200 °C, <b>T8</b> - 0...400 °C, <b>T9</b> - -50...200 °C	
<b>G4</b>	Diameter 'd' [mm]	normal T/C	<b>4</b> <sup>(5)</sup> , <b>5</b> , <b>6</b> , <b>8</b>
		MI T/C <sup>(1)</sup>	<b>4.5</b> , <b>6</b> , <b>8</b> <sup>(5)</sup>
<b>G5'</b>	Bayonet size <sup>(2)</sup>	<b>13</b> - ø13x1, <b>14</b> - ø14x1, <b>15</b> - ø15x1, <b>17</b> - ø17x1, <b>20</b> - ø20x1, <b>Z</b> - other (specify!)	
<b>G5"</b>	Bayonet material <sup>(2)</sup>	<b>AL</b> - aluminum, <b>BR</b> - brass, <b>SS</b> - stainless steel	
<b>G6</b>	Probe length 'n' [mm]	<b>10...200</b>	
<b>G8</b>	Cable length 'k' [m] and type	<b>1GL...10GL</b> - glass fiber, <b>1SL...10SL</b> - silicone, <b>1TF...10TF</b> - Teflon®, <b>1PU...10PU</b> - polyurethane <sup>(5)</sup> , <b>1MF...10MF</b> - mineral fiber, <b>1PV...10PV</b> - PVC	
<b>G9</b>	Mounting connection <sup>(3)</sup>	<b>Q0</b> - M16x1.5, <b>Q1</b> - M18x1.5, <b>Q2</b> - M20x1.5, <b>Q3</b> - G3/8", <b>Q4</b> - G1/2", <b>Q7</b> - M12x1.5, <b>Q8</b> - M14x1.5, <b>Q10</b> - 1/2" NPT, <b>Q18</b> - G1/8", <b>Q19</b> - 1/8" NPT, <b>Q20</b> - M10x1, <b>Q23</b> - G1/4", <b>Q24</b> - 1/4" NPT, <b>Q26</b> - M8x1, <b>Q29</b> - M8x1.25, <b>Q30</b> - M10x1.5, <b>Q31</b> - M6x1, <b>Uxx</b> - union nut (xx - same as for Qxx)	
<b>G10</b>	Sheath material (wetted parts)	normal T/C	<b>M1</b> - 1.4301, <b>M2</b> - 1.4541, <b>M3</b> - 1.4571, <b>M9</b> - 1.4404
		MI T/C <sup>(1)</sup>	<b>M1</b> - 1.4301, <b>M2</b> - 1.4541, <b>M3</b> - 1.4571, <b>M5</b> - 1.4841, <b>M8</b> - 2.4816 (Inconel 600), <b>M9</b> - 1.4404
<b>G11</b>	Accuracy class	<b>1</b> - '1' <sup>(5)</sup> , <b>2</b> - '2'	
<b>G14</b>	Tip shape (hot junction)	<b>X</b> - standard (isolated from sheath), <b>G</b> - grounded, <b>E</b> - exposed hot junction, <b>O</b> - open-tube design	
<b>G15</b>	Connector	<b>X</b> - none, <b>C3</b> - 4-pin male plug-in connector ø8 (for H5700 thermometer only), <b>C5</b> - T/C connector, <b>C6</b> - miniature T/C connector	
<b>#1</b>	Options	<b>X</b> - none, <b>OV</b> - vibration proof (MgO or Silicone filled) <sup>(4)</sup> , <b>OS</b> - cable protection SS spring (≈ 50 mm) <sup>(1)</sup> , <b>OB</b> - braid termination lead (only w/o connector), <b>OP</b> - electrochemically polished sheath surface <sup>(4)</sup>	

<sup>(1)</sup> Only for BTSBL and BTSBGL!

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