

SCREW-IN MI RTD PROBE TSNGx Sheath - see table Extension cable - see table notes	SENSITIVE ELEMENT	SHEATH MATERIAL	TEMPERATURE RANGE **	DIMENSIONS																		
				d [mm]	wires																	
<p>STRAIGHT DESIGN (TSNG)</p> <p>n = 50 ... 50 000 mm k = 1 ... 10 m</p>	1 x Pt (RB,RD,RF,RG)	M1, M2, M3, M5, M8, M9	T7 0...200 °C T8 0...400 °C T9 -50...200 °C T22 -200...200 °C	3*, 4.5, 6, 8	2, 3, 4*																	
	2 x Pt (RB,RD,RF,RG)	M1, M2, M3, M5, M8, M9	T1 -50...400 °C T11* -50...600 °C T4* 0...800 °C	4.5*, 6, 8	2x2 2x3*																	
	<p>Sheath material: 1.4301 (M1), 1.4541 (M2), 1.4571 (M3), 1.4841 (M5), 2.4816 (M8), 1.4404 (M9)</p> <p>Cable type: - 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)</p> <p>Tip shape: standard (see Appendix - Tip Shapes)</p> <p>Accuracy class: 'A', 'B', or '2xB' (see Appendix - RTD Tolerance)</p> <p>Cable connector: 4-pin (C3) (see Appendix - Connectors)</p> <p>Temperature limitation: The temperature beyond the HEX body (SW) must not exceed -50...200 °C!</p> <p>Available threads and HEX sizes:</p> <table border="1"> <thead> <tr> <th>G</th> <th>M6</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>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	M6	M8	M10 1/8"	M12 1/4"	M14	M16 3/8"	M18	M20 1/2"	SW	10	10	12(13)	14	17	19	22
G	M6	M8	M10 1/8"	M12 1/4"	M14	M16 3/8"	M18	M20 1/2"														
SW	10	10	12(13)	14	17	19	22	24														
<p>EXTENDED DESIGN (TSNG1)</p> <p>n = 50 ... 50 000 mm m = 60 ... 50 000 mm k = 1 ... 10 m</p>																						
<p>ANGLED DESIGN (TSNGL)</p> <p>n = 50 ... 50 000 mm k = 1 ... 10 m</p>																						

* Please contact COMECO!

** Max. 550 °C (for chip RTD) or 800 °C (for wire-wound RTD)

*** Sub-zero temperatures are not recommended

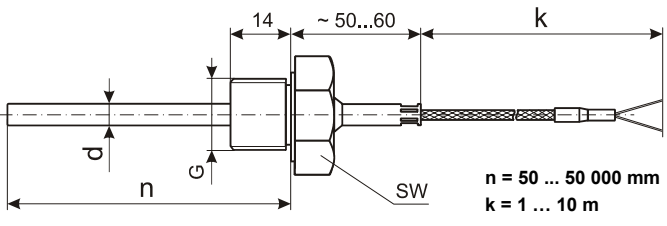
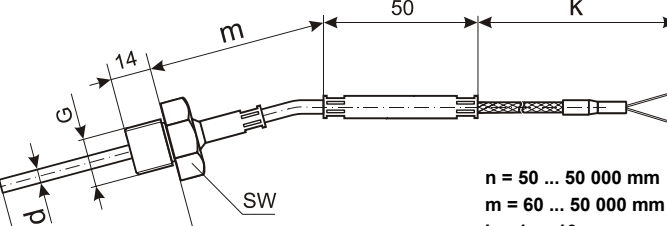
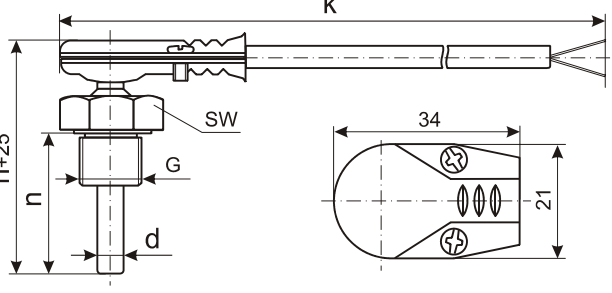
Ordering code TSNG(G1,L) - G1G2.G3.G4.G6.G7.G8.G9.G10.G11.G12.G15 - #1

Code	Feature or option	Code values
G1	Number of RTD sensors	1 or 2
G2	Sensor	RB - Pt50, RD - Pt100, RF - Pt500, RG - Pt1000
G3	Temperature range	T7 - 0...200 °C, T9 - -50...200 °C, T22 - 200...200 °C, T8 - 0...400 °C, T1 - -50...400 °C, T11 - 50...600 °C ⁽³⁾ , T4 - 0...800 °C ⁽³⁾
G4	Diameter 'd' [mm]	3 ⁽³⁾ , 4.5, 6, 8
G6	Probe length 'n' [mm]	50...50000
G7	Probe length 'm' [mm] ⁽¹⁾	60...50000
G8	Cable length 'k' [m] and type	1GL...10GL - glass fiber, 1SL...10SL - silicone, 1TF...10TF - Teflon®, 1PU...10PU - polyurethane ⁽³⁾ , 1PV...10PV - PVC
G9	Mounting connection	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	M1 - 1.4301, M2 - 1.4541, M3 - 1.4571, M5 - 1.4841, M8 - 2.4816 (Inconel 600), M9 - 1.4404
G11	Accuracy class	A - 'A', B - 'B', C - '2xB'
G12	Number of wires	2, 3, 4 ⁽³⁾
G15	Connector	X - none, C3 - 4-pin male plug-in connector ø8 (for H5700 thermometer only)
#1	Options	X - none, OS - cable protection SS spring (≈ 50 mm) ⁽²⁾ , OB - braid termination lead (only w/o connector)

⁽¹⁾ Only for TSNG1!

⁽²⁾ Only for TSNG!

⁽³⁾ Contact COMECO!

SCREW-IN MI THERMOCOUPLE PROBE TSNGx Sheath - see table Extension cable - see table notes	SENSITIVE ELEMENT	SHEATH MATERIAL	TEMPERATURE RANGE	d [mm]																		
<p>STRAIGHT DESIGN (TSNG)</p>  <p>n = 50 ... 50 000 mm k = 1 ... 10 m</p>	<p>1 x J, 1 x T **</p>	<p>M1 M2,M3,M9,M5,M8 M4 M10</p>	<p>max. 400 °C max. 800 °C</p>	<p>1.5, 2, 3, 4.5, 6, 8, 10* 6, 8 3, 4.5, 6</p>																		
<p>EXTENDED DESIGN (TSNG1)</p>  <p>n = 50 ... 50 000 mm m = 60 ... 50 000 mm k = 1 ... 10 m</p>	<p>2 x J 2 x T **</p>	<p>M1 M2,M3,M9,M5,M8 M4</p>	<p>max. 400 °C max. 800 °C</p>	<p>1.5, 2, 3, 4.5, 6, 8, 10* 6, 8</p>																		
<p>ANGLED DESIGN (TSNGL)</p>  <p>n = 50 ... 50 000 mm k = 1 ... 10 m</p>	<p>1 x K, 1 x N, 1 x E **</p>	<p>M1 M2, M3, M9 M7* M8 M4 M5 M10</p>	<p>max. 400 °C max. 850 °C max. 1100 °C max. 1150 °C max. 1250 °C</p>	<p>1.5, 2, 3, 4.5, 6, 8, 10* 3, 6, 10* 1.5, 2, 3, 4.5, 6, 8, 10* 6, 8 1.5, 3, 4.5, 6, 8 3, 4.5, 6</p>																		
<p>2 x K 2 x N 2 x E **</p>	<p>M2, M3, M9 M7* M8 M4 M5</p>	<p>max. 850 °C max. 1100 °C max. 1150 °C</p>	<p>1.5, 3, 4.5, 6, 8 3, 6, 10* 1.5, 3, 4.5, 6, 8 6, 8 1.5, 3, 4.5, 6, 8</p>																			
<p>1 x S(R), 2 x S(R)</p>	<p>M8</p>	<p>max. 1100 °C</p>	<p>3, 4.5, 6</p>																			
<p>Sheath material: 1.4301 (M1), 1.4541 (M2), 1.4571 (M3), 1.4762 (M4), 1.4841 (M5), 1.4876 (M7), 2.4816 (M8), 1.4404 (M9), Microbell® (M10)</p> <p>Cable type: - 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)</p> <p>Tip shape (hot junction design): standard (isolated), grounded, open-tube, exposed (see Appendix - Tip Shapes)</p> <p>Accuracy class: '1' or '2' (see Appendix - T/C Tolerance)</p> <p>Thermocouple connector: 'standard' (C5) or 'miniature' (C6) (see Appendix - Connectors)</p> <p>Temperature limitation: The temperature beyond the HEX body (SW) must not exceed -50...200 °C!</p> <p>Available threads and HEX sizes:</p> <table border="1" data-bbox="869 1736 1460 1803"> <thead> <tr> <th>G</th> <th>M6</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>10</td> <td>12(13)</td> <td>14</td> <td>17</td> <td>19</td> <td>22</td> <td>24</td> </tr> </tbody> </table> <p>* Please contact COMECO! ** For T/C type "T": max. 400 °C; for T/C type "E": max. 1000 °C</p>					G	M6	M8	M10 1/8"	M12 1/4"	M14	M16 3/8"	M18	M20 1/2"	SW	10	10	12(13)	14	17	19	22	24
G	M6	M8	M10 1/8"	M12 1/4"	M14	M16 3/8"	M18	M20 1/2"														
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Ordering code TSNG(G1,L) - G1G2.G3.G4.G6.G7.G8.G9.G10.G11.G14.G15 - #1

Code	Feature or option	Code values
G1	Number of thermocouples	1 or 2
G2	Thermocouple	E - type "E", J - type "J", K - type "K", N - type "N", R - type "R", S - type "S", T - type "T"
G3	Temperature range	T7 - 0...200 °C, T9 - -50...200 °C, T8 - 0...400 °C, T1 - -50...400 °C, T4 - 0...800 °C, T3 - 0...850 °C, T16 - 0...1100 °C, T6 - 0...1150(1250) °C
G4	Diameter 'd' [mm]	1.5 ⁽¹⁾ , 2 , 3 , 4.5 , 6 , 8
G6	Probe length 'n' [mm]	50...50000
G7	Probe length 'm' [mm] ⁽²⁾	60...50000
G8	Cable length 'k' [m] and type	1GL...10GL - glass fiber, 1SL...10SL - silicone, 1TF...10TF - Teflon®
G9	Mounting connection	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	M1 - 1.4301, M2 - 1.4541, M3 - 1.4571, M4 - 1.4762 (1.4749), M5 - 1.4841, M7 - 1.4876 (Incolloy 800), M8 - 2.4816 (Inconel 600), M9 - 1.4404, M10 - Nicrobell®
G11	Accuracy class	1 - '1' ⁽⁴⁾ , 2 - '2'
G14	Tip shape (hot junction)	X - standard (isolated from sheath), G - grounded, E - exposed hot junction, O - open-tube design
G15	Connector	X - none, C5 - T/C connector, C6 - miniature T/C connector
#1	Options	X - none, OS - cable protection SS spring (≈ 50 mm) ⁽³⁾ , OB - braid termination lead (only w/o connector)

⁽¹⁾ Grounded when G1="2"

⁽²⁾ Only for TSNG1!

⁽³⁾ Only for TSNG!

⁽⁴⁾ Contact COMECO!