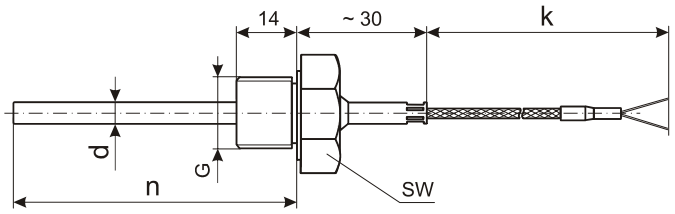
SCREW-IN MI THERMOCOUPLE PROBE — NGx (TSNGx)

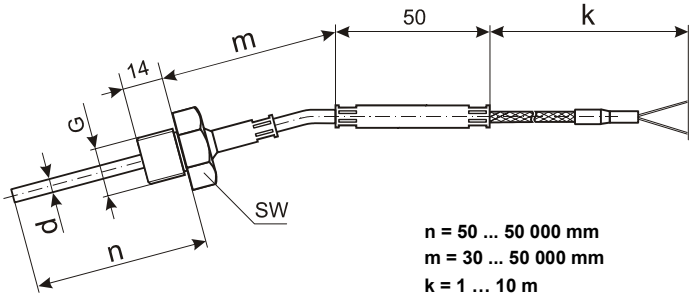
Sheath - see table
Extension cable - see table notes

STRAIGHT DESIGN (NG)



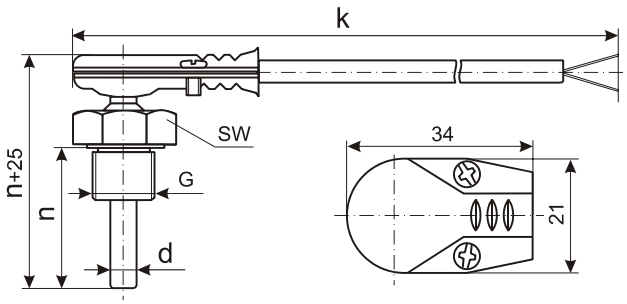
n = 50 ... 50 000 mm
k = 1 ... 10 m

EXTENDED DESIGN (NG1)



n = 50 ... 50 000 mm
m = 30 ... 50 000 mm
k = 1 ... 10 m

ANGLED DESIGN (NGL)



n = 50 ... 50 000 mm
k = 1 ... 10 m

SENSITIVE ELEMENT	SHEATH MATERIAL	TEMPERATURE RANGE	d [mm]
1 x J, 1 x T **	M2, M3, M8	T4 0...800 °C	1.5, 2, 3, 4.5, 6, 8
	M9, M5		1.5, 2, 3, 4.5, 6, 8
	M4		6, 8
	M10		3, 4.5, 6
1 x K, 1 x N, 1 x E **	M2, M3	T3 0...850 °C	1.5, 2, 3, 4.5, 6, 8s
	M9		1.5, 2, 3, 4.5, 6, 8
	M7*	T16 0...1100 °C	3, 6
	M8		1.5, 2, 3, 4.5, 6, 8
	M4	T6 0...1150 °C	6, 8
	M5		1.5, 3, 4.5, 6, 8
	M10	T6 0...1250 °C	3, 4.5, 6
1 x S(R)	M8	T16 0...1100 °C	3, 4.5, 6

Sheath material:
1.4541 (M2), 1.4571 (M3), 1.4762 (M4), 1.4841 (M5), 1.4876 (M7), 2.4816 (M8), 1.4404 (M9), Nicrobell® (M10)

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)**
- **SFSF (mineral fiber, max. 1000 °C ambient temperature)**
- **KFKF (ceramic fiber, max. 1200 °C ambient temperature)**

Tip shape (hot junction design):
standard (isolated), grounded, open-tube, exposed
(see Appendix - Tip shapes)

Accuracy class:
'1' or '2'
(see Appendix - T/C Tolerance)

Thermocouple connector:
'standard' (C5) or 'miniature' (C6)
(see Appendix - Connectors)

*** Please contact COMECO!**

**** For T/C type "T": (T8) 0...400 °C; for T/C type "E": (T13) 0...1000 °C**

COMECO reserves the right of changing specifications without prior notice!

Ordering code TSNG(G1,L) - G2.G3.G4.G6.G7.G8.G9.G10.G11.G14.G15 - #1

Code	Feature or option	Code values
G2	Thermocouple	**J** - type "J", **K** - type "K", **N** - type "N", **E** - type "E", **T** - type "T", **S** - type "S", **R** - type "R"
G3	Temperature range	**T4** - 0…800 °C, **T3** - 0…850 °C, **T16** - 0…1100 °C, **T6** - 0…1150(1250) °C
G4	Diameter 'd' [mm]	**1.5**, **2**, **3**, **4.5**, **6**, **8**
G6	Probe length 'n' [mm]	**50…50000**
G7	Probe length 'm' [mm] (1)	**30…50000**
G8	Cable length 'k' [m] and type	**1GL…10GL** - glass fiber, **1SL…10SL** - silicone, **1TF…10TF** - Teflon®, **1MF…10MF** - mineral fiber, **1CF…10CF** - ceramic fiber
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	**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' (3), **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) (2), **OB** - braid termination lead (only w/o connector), **OP** - electrochemically polished sheath surface

(1) Only for TSNG1!
(2) Only for TSNG!
(3) Contact COMECO!

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