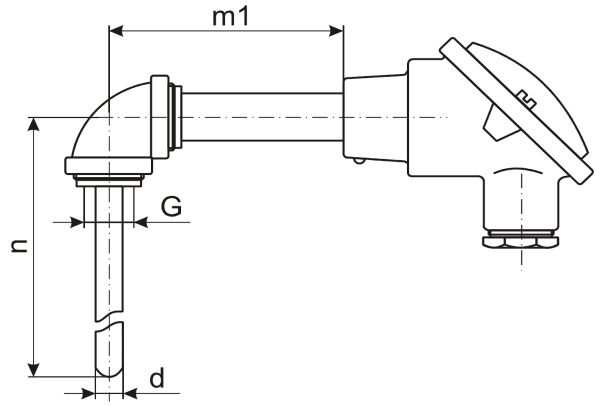
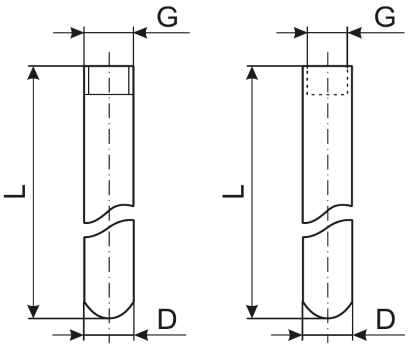
TERMOCUPLU tip TSLD

ANGLED T/C PROBE WITH PROTECTION HEAD FOR PROTECTION TUBE ASSEMBLY **LDx (TSLDx)**

(FOR IN-HEAD TRANSMITTER)** **OLDx (TSOLDx)**

Holding tube - stainless steel 1.4301 or 1.4404
Protection tube - metal (see Accessories - Protection tubes)
Head - aluminum, stainless steel, or plastic (see Appendix - Protection heads)





Protection Tube Material	Sheathed T/C max. d [mm]	Bare T/C max. ø [mm]
M11, M14	10	4 x ø3
M3, M4, M6, M6S, M8, M9	10	2 x ø3

SENSITIVE ELEMENT	TEMPERATURE RANGE	DIMENSIONS d [mm]	wire ø [mm]	wires
Normal Thermocouple Design				
1 x J; 2 x J	T4 0...800 °C	8	1	2; 2x2
		10	1.5	
		bare	1, 1.5, 3	
1 x L; 2 x L		10	1.5	2; 2x2
		bare	1.2, 3.2	
1 x K; 2 x K	T3 0...850 °C T16 0...1100 °C T6* 0...1150 °C	8	1	2; 2x2
		10	1.5	
		bare	1, 1.5, 3	
1 x E; 2 x E	T3 0...850 °C T13 0...1000 °C	8	1	2; 2x2
		10	1.5	
		bare	1, 1.5, 3	
1 x S; 2 x S 1 x R; 2 x R	T16 0...1100 °C T6* 0...1150 °C T21 0...1300 °C	8, 10, or bare	0.35, 0.5	2; 2x2
MI Thermocouple Design				
1 x J	T4 0...800 °C	3, 4.5, 6, 8		2
2 x J				2x2
1 x K 1 x N; 1 x E	T3 0...850 °C T16 0...1100 °C	3, 4.5, 6, 8, 10		2
2 x K 2 x N, 2 x E	T6* 0...1150 °C T6* 0...1250 °C			2x2

Protection head:
B, MA, MB, G, N, Dx, Ex, EX (see Appendix - Protection heads)

Process connection (must fit the YA connection 'G'):
G1/2"(Q4), G3/4"(Q6), male or female (see Accessories - Protection tubes)

Insertion length (must fit the YA length 'L'):
n = 100…1000 mm

Holding tube:
- m1 = 100…1000 mm
- OD 20(22) mm
- tube/elbow material 1.4301 or 1.4541

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

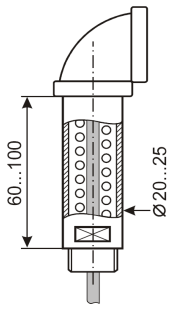
Process pressure:
YA protection tube process pressure (see Accessories - Protection tubes)

Sheath material:
1.4404(M9), 1.4541(M2), 1.4571(M3), 1.4762(M4), 1.4841(M5), 1.4845(M6), 1.4876(M7), 2.4816(M8), 1.4362 (M15)

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

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

Spring-loaded adapter:
(mounted between protection tube and elbow)



* Please contact

** Order transmitter separately!!!

Ordering code TS✶ - G0.G1G2.G3.G4.G6.G7.G9.G10.G11.G14 - #1.#2

Code	Feature or option		Code values
✶	Base model variant		LD - standard (w/ terminal block), OLD - prepared for in-head transmitter (w/o terminal block)
G0	Protection head		B - type "B", MA - type "MA", MB - type "MB", G - IP65, type "G", N - type "N", D - type "D", DW - windowed, type "DW", DH - w/ high cap, type "DH", DHW - windowed, type "DHW", E - IP65, type "E", ES - stainless-steel, type "ES", EG - IP68 ATEX-approved, type "EG", EGS - IP66 ATEX-approved, type "EGS", EGW - windowed ATEX-approved, type "EGW", EX - explosion-proof instrument housing (specify!)
G1	Number of thermocouples		1 or 2
G2	Thermocouple		J - type "J", K - type "K", N - type "N", E - type "E", L - type "L", S - type "S", R - type "R"
G3	Temperature range		T3 - 0…850 °C, T4 - 0…800 °C, T6 - 0…1200 °C [4], T13 - 0…1000 °C, T16 - 0…1100 °C, T21 - 0…1300 °C
G4	Diameter 'd' [mm] (must fit the protection tube ID)	normal T/C	X (bare thermocouple), 8, 10
		MI T/C	3, 4.5, 6, 8, 10
G6	Probe length 'n' [mm]		100…1000
G7	Probe length 'm1' [mm]		100…1000
G9	Mounting connection (must fit the protection tube thread)		Q4 - G1/2", Q6 - G3/4", U4 - G1/2-F", U6 - G3/4-F"
G10	Sheath material	normal T/C	M2 - 1.4541, M3 - 1.4571, M4 - 1.4762, M5 - 1.4841, M6 - 1.4845, M7 - 1.4876, M8 - 2.4816, M9 - 1.4404, M15 - 1.4362
		MI T/C	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 [1], O - open-tube design [1]
#1	Options		X - none, OV - vibration proof (spring-type terminals [4], secured screws), OA - spring-loaded adapter [2], OP - electrochemically polished sheath surface
#2	Local indicator		X - none, A - local indicator mounted [3]

[1] Only for non explosion-proof thermocouples!
[2] Not available for bare thermocouple!
[3] With windowed head only! See indicator datasheets and order separately!
[4] Contact