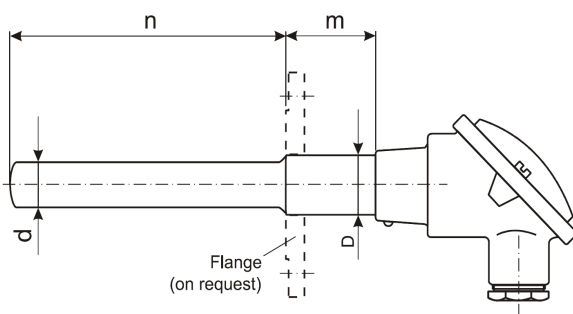
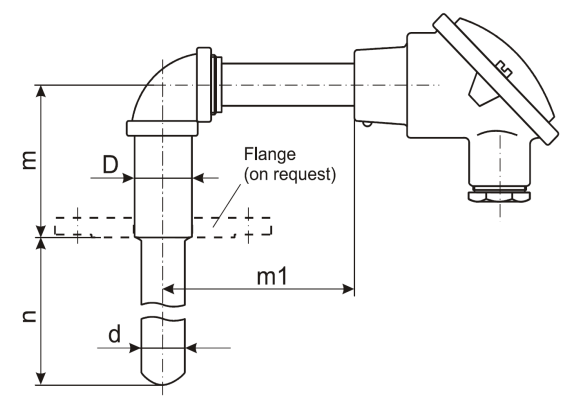


TERMOCUPLU CU TEACA CERAMICA – tip TSZ & TSZL

T/C PROBE WITH PROTECTION HEAD AND CERAMIC PROTECTION TUBE Zx (TSZx) OZx (TSOZx) (FOR IN-HEAD TRANSMITTER)** Holding tube - stainless steel 1.4301 or 1.4404 Protection tube - ceramic (see Accessories - Protection tubes) Head - aluminum, stainless steel, or plastic (see Appendix - Protection heads)					DIMENSIONS																				
					SENSITIVE ELEMENT	TEMPERATURE RANGE	WIRE [mm] / MI [mm]	TUBE MATERIAL	d [mm]	D [mm]															
<div style="text-align: center;"> STRAIGHT DESIGN (Z)  </div> <div style="text-align: center; margin-top: 20px;"> ANGLED DESIGN (ZL)  </div> <p style="margin-top: 20px;">n = 200...n_{max} n_{max} can be defined from the table below:</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th rowspan="2">n [mm]</th> <th colspan="2">d ≤ 16</th> <th>d ≤ 32</th> </tr> <tr> <th>single</th> <th>double</th> <th>any</th> </tr> </thead> <tbody> <tr> <td>≤ 400</td> <td>L - 50</td> <td>L - 70</td> <td>L - 100</td> </tr> <tr> <td>≤ 800</td> <td>L - 70</td> <td>L - 100</td> <td>L - 100</td> </tr> <tr> <td>≤ 1800</td> <td>L - 100</td> <td>L - 100</td> <td>L - 100</td> </tr> </tbody> </table> <p style="margin-top: 5px;">where 'L' is the length of the protection tube (see Accessories - Protection tubes)</p> <p style="margin-top: 5px;">Holding tube: - m1 = 100...1000 mm - OD 20(22) mm - tube/elbow material 1.4301 or 1.4541</p>	n [mm]	d ≤ 16		d ≤ 32	single	double	any	≤ 400	L - 50	L - 70	L - 100	≤ 800	L - 70	L - 100	L - 100	≤ 1800	L - 100	L - 100	L - 100	Normal Thermocouple Design					
		n [mm]	d ≤ 16		d ≤ 32																				
	single		double	any																					
	≤ 400	L - 50	L - 70	L - 100																					
	≤ 800	L - 70	L - 100	L - 100																					
	≤ 1800	L - 100	L - 100	L - 100																					
	1 x K; 1 x N 2 X K, 2 X N	T13	0...1000 °C	1.0	C1(2),C6	10	16																		
		T6	0...1200 °C	1.5	C1(2)	15	22																		
					C6, C7	16, 19	22, 24																		
					C5	17	24																		
		T6	0...1200 °C	3.0	C1(2)	24	32																		
					C4, C7	22, 28	30, 36																		
	C5				23	30																			
	1 x S; 1 x R 2 X S, 2 X R	T21	0...1300 °C	0.35	C1(2)	10,15,24	16,22,32																		
					C4	22	30																		
C6					10,16,19,25	16,22,24,32																			
T5		0...1500 °C	0.35, 0.5	C1(2)	10,15,24	16,22,32																			
				C5	17, 23	24, 30																			
				C6	10,16,19,25	16,22,24,32																			
T14	0...1600 °C	0.5	C2	10,15,24	16,22,32																				
			C6	10,16,19,25	16,22,24,32																				
1 x B; 2 x B	T14	0...1600 °C	0.35	C2	10,15,24	16,22,32																			
1 x B; 2 x B	T15	0...1700 °C	0.5	C3	10,15,24	16,22,32																			
				C6*	10,16,19,25	16,22,24,32																			
MI Thermocouple Design																									
1 x K; 1 x N 2 X K, 2 X N	T16	0...1100 °C	3, 4,5	C1, C6	10	16																			
	T16	0...1100 °C (Inconel 600)	3, 4,5, 6, 8	C1	15	22																			
				C6, C7	16, 19	22, 24																			
				C5	17, 23	24, 30																			
	T6	0...1200 °C (Microbell®)	3, 4,5, 6, 8, 10	C1	24	32																			
				C4, C7	22, 28	30, 36																			
C6				25, 32	32, 40																				
1 x S, 2 x S	T16	0...1100 °C (Inconel 600)	3, 4,5, 6	C1, C6	10	16																			
				C1	15	22																			
				C6, C7	16, 19	22, 24																			
				C5	17, 23	24, 30																			

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

Process connection:
- welded or adjustable flange
- no mounting appliances

Extension length:
m = 100...1000 mm

Extension tube material:
1.4301(M1), 1.4541(M2), 1.4404(M9), 1.4571(M3)

MI sheath material:
2.4816(M8), Microbell® (M10)

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

* Please contact
** Order transmitter separately!!!

Distributor:

SYSCOM 02 Srl Bucuresti

Tel./ Fax.: 021 410 5281; mobil: 0722 725659; e-mail: syscom02@automatizariindustriale.ro;

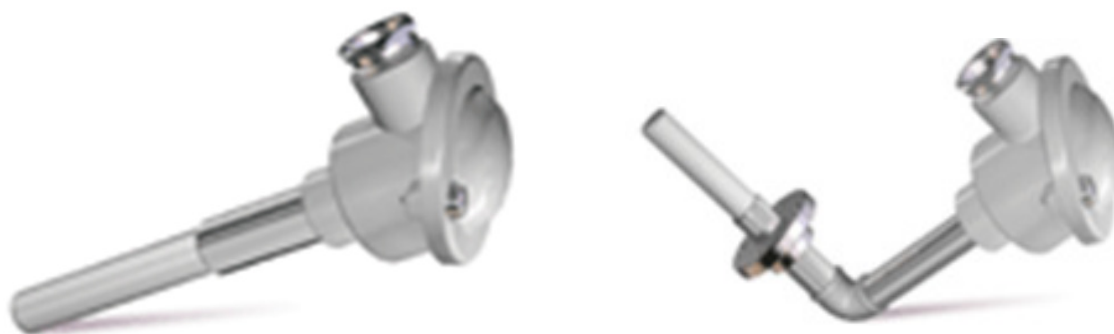
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Ordering code TS*(L) - G0.G1G2.G3.G4.G5.G6.G7'.G7".G9.G10'.G10".G11 - #1

Code	Feature or option	Code values
*	Base model variant	Z - standard (w/ terminal block), OZ - 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 Ex 'd', type "EG", EGS - IP66 ATEX-approved Ex 'd', type "EGS", EGW - windowed ATEX-approved Ex 'd', type "EGW", EX - explosion-proof instrument housing (specify!)
G1	Number of thermocouples	1 or 2
G2	Thermocouple <u>Check wire-to-sheath compatibility in the specification table!</u>	K - type "K", N - type "N", S - type "S", R - type "R", B - type "B"
G3	Temperature range	T5 - 0...1500 °C, T6 - 0...1200 °C, T13 - 0...1000 °C, T14 - 0...1600 °C, T15 - 0...1700 °C, T16 - 0...1100 °C, T21 - 0...1300 °C
G4	Diameter 'd' [mm]	single tube: 10, 15, 16, 17, 19, 22, 23, 24, 25, 28, 32 (see table overleaf) double tube: 24/10, 24/15, etc. (see 'Accessories - Protection tubes YA' for available combinations!)
G5	Diameter 'D' [mm]	16, 22, 24, 30, 32, 36, 40
G6	Probe length 'n' [mm]	200...1800 (see table overleaf)
G7'	Probe length 'm' [mm]	100...1000
G7"	Probe length 'm1' [mm]	100...1000
G9	Mounting connection	X - no mounting appliances, F - flange (specify!), Z - other connection (specify!)
G10'	Protection tube material	C1 - ceramic Pythagoras 610, C2 - ceramic Oxal 710, C3 - ceramic Alsint 799, C4 - metal-ceramic Ucar®, C5 - silicon carbide, C6 - Hexoloy®, C7 - Syalon
G10"	Extension tube material	M1 - 1.4301, M2 - 1.4541, M3 - 1.4571, M9 - 1.4404
G11	Accuracy class	1 - '1' ⁽²⁾ , 2 - '2'
#1	Local indicator	X - none, A - local indicator mounted ⁽¹⁾

⁽¹⁾ With windowed head only! See indicator datasheets and order separately!

⁽²⁾ Contact



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