

MODEL INFORMATION - IS10C

Model	Product Description		
IS10C	Series IS10C Thermocouple-Insert with Mineral Insulation - Acc. to IEC 60584		
Code	Explosion Proof Rating		
1	Standard		
2	EEx d IIC T6 Flameproof Approval acc. EN50018		
3	EEx ia IIC T6 Intrinsically Safety acc. EN 50020		
Code	Sensor Type	Temperature Range [°C]	
K	K : NiCr-NiSi	0 to +1200	
N	N : NiCrSi-NiSi	0 to +1260	
J	J : Fe-CuNi	0 to +750	
T	T : Cu-CuNi	-180 to +400	
E	E: NiCr-CuNi	-200 to +900	
X	Other		
Code	Precision Class	Tolerance- K,N,J,E	Tolerance- T
1	Class 1	±1.5 °C or ±0.0040 t °C	±0.5 °C or ±0.0040 t °C
2	Class 2	±2.5 °C or ±0.0075 t °C	±1.0 °C or ±0.0075 t °C
Code	Number of Elements		
12	Single		
22	Double		
Code	Measuring Junction Type		
U	Insulated		
G	Grounded		
Code	Insert Diameter d		
30	Ø 3 mm		
45	Ø 4.5 mm		
60	Ø 6 mm		
80	Ø 8 mm		
95	Ø 9.5mm		
XX	Other		
Code	Sheath Material		
A10	AISI 316(DIN 1.4401), For Type J,T,E		
A16	AISI 347(DIN 1.4550), For Type K,N,J,T,E		
A22	INCONEL 600(DIN 2.4816), For Type K,N		
A20	AISI 446(DIN 1.4762), For Type K,N		
A35	Pyrosil, For Type K,N		
XXX	Other		
Code	Assembly Type	Material	Min. Extension Length N [mm]
D1	Direct Mount Assembly	AISI 316 (DIN 1.4401)	
S1	Sliding Compression Fitting Assembly	AISI 316 (DIN 1.4401)	
N1	Nipple Assembly	AISI 316 (DIN 1.4401)	120
U1	Nipple-Union(1/2" NPT)-Nipple Assembly	AISI 316 (DIN 1.4401)	120
T1	Telescopic Lag Assembly	AISI 316 (DIN 1.4401)	120
D2 ⁽¹⁾	Direct Mount with Safety Sealing Assembly	AISI 316 (DIN 1.4401)	
S2 ⁽¹⁾	Sliding Compression Fitting with Safety Sealing Assembly	AISI 316 (DIN 1.4401)	
N2 ⁽¹⁾	Nipple with Safety Sealing Assembly	AISI 316 (DIN 1.4401)	200
U2 ⁽¹⁾	Nipple-Union (1/2" NPT)-Nipple with Safety Sealing Assembly	AISI 316 (DIN 1.4401)	200
T2 ⁽¹⁾	Telescopic Lag with Safety Sealing Assembly	AISI 316 (DIN 1.4401)	200
XX	Other		
Code	Connection Head	IP Rating	
K	KNE, Aluminum	67	
S	KNE, AISI 316(DIN 1.4401)	67	
E	EEx'd, Aluminum	67	
X	Other		
Code	Wire Entry		
N	1/2" NPT F		
M	M20x1.5 F		
X	Other		
Code	Extension Length "N" [mm]		
NNN	Without Extension		
130	130 – Standard		
200	200		
XXX	Other		
Code	Process Connection / Material		
A1	Thread - 1/2" NPT M / AISI 316 (DIN 1.4401)		
B1	Thread - 1/2" BSP M / AISI 316 (DIN 1.4401)		
XX	Other		
Code	Insertion Length "LU" or Nominal Length "LN" [mm]		
0150	150		
WELL	Suit to Thermowell		
XXXX	Other		
Code	Additional Options		
G	With Cable Gland		
F	With Flange for Process Connection		
X	Other		

Typical Model Number: IS10C 1 K 1 12 U 60 A22 U1 K N 130 A1 0500 G

- (1) The Pressure Range of Safety Sealing Gland : Vacuum to 10,000PSIG (690 bar)
 The Temperature Range of Safety Sealing Gland : -240 °C to +870 °C

Figure for Standard-Application Thermocouples

