

MODEL INFORMATION – IS20C

Model	Product Description		
IS20C	Series IS20C Thermocouple-Insert with Mineral Insulation For Surface Temperature Measurement – 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 : NiCr rSi-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	
1	Class 1	±1.5 °C or ±0.0040 t °C	
2	Class 2	±2.5 °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,K,N		
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	
N1	Nipple Assembly	AISI 316(DIN 1.4401)	
U1	Nipple-Union(1/2"NPT)-Nipple for Thread Connection Assembly	AISI 316(DIN 1.4401)	
NF	Nipple for Flange Connection Assembly	AISI 316(DIN 1.4401)	
NW	Without Process Connection	AISI 316(DIN 1.4401)	
S1	Nipple with Sliding Fitting and Cable for Thread connection Assembly	AISI 316(DIN 1.4401)	
T1	Sliding Fitting with Cable for Thread connection Assembly	AISI 316(DIN 1.4401)	
TF	Sliding Fitting with Cable for Flange connection Assembly	AISI 316(DIN 1.4401)	
SF	Nipple with Sliding Fitting and Cable for Flange connection Assembly	AISI 316(DIN 1.4401)	
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]		
000	Without Extension		
120	120		
150	150		
XXX	Other		
Code	Process Connection / Material		
A01	Thread - 1/2" NPT M / AISI 316(DIN 1.4401)		
A02	Thread - 1" NPT M / AISI 316(DIN 1.4401)		
U11	Flange - 1" ANSI 150 LBS RF / AISI 316(DIN 1.4401)		
U21	Flange - 1-1/2" ANSI 150 LBS RF / AISI 316(DIN 1.4401)		
G11	Flange - DIN DN25 PN16 RF / AISI 316(DIN 1.4401)		
G21	Flange - DIN DN40 PN16 RF / AISI 316(DIN 1.4401)		
NNN	Without Process Connection		
XXX	Other		
Code	Measure Point Type		
FP	Fixed Connection by Welding, with Weld Pad - 25X25 mm		
RP	Fixed Connection by Welding, with Removable Weld Pad - 25X25 mm		
RC	Fixed Connection by Welding, with Removable Adiabatic Cover		
KE	Fixed Connection by Welding, with Knife Edge		
ET	End Type		
XX	Other		
Code	Insertion Length "LU" [mm] or Nominal Length "LN" [mm]		
1500	1500		
XXXX	Other		

Code	Extension Cable Type	Temperature [°C]
P	PVC Insulated and Shield with Protective Spring	-20 to +105
T	PTFE Insulated and Shield with Protective Spring	-75 to +260
G	Fiberglass Insulated and Shield with Protective Spring	-60 to +400
N	Without, only for Code- N1, NF, U1, NW	
X	Other	
Code	Cable Length "LC" [mm]	
1000	1000	
0000	No for Assemble Type Code - N1, U1, NF, NW	
XXXX	Other	
Code	Additional Options	
G	With Cable Gland	
F	With Fixing Clamp in AISI 321(DIN 1.4541)– Standard 3 Pieces	
C	With Compression Fitting – 1/2" NPT in AISI 316(DIN 1.4401)	
X	Other	

Typical Model Number: IS20C 3 K 1 12 U 60 A22 U1 K N 150 U11 RP 1500 N 0000 G

Figure for Surface Temperature Measurement Thermocouples

