

MODEL INFORMATION – IS30C

Model	Product Description		
IS30C	Series IS30C Thermocouple - with Precious Metal Sensors in Ceramic Insert, and with Ceramic Thermowell - Acc. to DIN 43733		
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 – Acc. to IEC 60584		
R	R : PtRh13%-Pt		
S	S : PtRh10%-Pt		
B	B : PtRh70%-Pt Rh6%		
X	Other		
Code	Precision Class	Tolerance for R & S	Tolerance for B
1	Class 1	0 to 1100°C, ±1°C / 1100 to 1600°C ±[1+0.003x(t-1100)] °C	Not Established
2	Class 2	0 to 600°C, ±1.5°C / 600 to 1600°C, ±0.0025t°C	600 to 1700°C ±0.0025t°C
3	Class 3	Not Established	600 to 800°C, ±4°C / 800 to 1700°C, ±0.005t°C
Code	Number of Elements		
12	Single		
22	Double		
Code	Wire Diameter [mm]	Temperature [°C]	
35	0.35	0 to 1400/R,S; 0 to 1600/B	
50	0.50	0 to 1500/R,S; 0 to 1800/B	
XX	Other		
Code	Insulation Rod Diameter d / Material		
A	8.5 mm / C 799 ⁽¹⁾		
B	5.5 mm / C 799, Only for Inner Tube Dia. Ø 10x6 mm		
X	Other		
Code	Protective Tube Material / Dimensions D2- ODxD [mm]	Inner Tuber Material - OD/ID [mm]	Max. Temperature [°C]
C724	Ceramic C799 / Ø24x18mm	C-799 - Ø 15x10	1800
C715	Ceramic C799 / Ø15x10mm	C-799 - Ø 9.6x6.4	1800
S925	SA ⁽²⁾ Silicon Carbide / Ø1"x1/2"	C-799 - Ø 10x6	1600
S920	SA Silicon Carbide / Ø3/4"x1/2"	C-799 - Ø 10x6	1600
M620	LT-1 ⁽³⁾ Metal Ceramic / Ø 7/8"x5/8"	C-799 - Ø 10x6	1370
M625	LT-1 ⁽³⁾ Metal Ceramic / Ø1"x3/8"	C-799 - Ø 9x6	1370
XXXX	Other		
Code	Holding Tube Material		
A10	AISI 316(DIN1.4401)		
A15	AISI 314(DIN1.4841)		
A18	AISI 310(DIN1.4845)		
A20	AISI 446(DIN1.4762)		
A22	INCONEL 600(DIN 2.4816)		
A23	INCOLOY 800(DIN 1.4876)		
XXX	Other		
Code	Holding Tube Dimension D1- OD [mm]		
D32	Ø 32		
D21	Ø 21		
XXX	Other		
Code	Assembly Type		
A1	Two Ceramic Tubes with Holding Tube Standard Assembly		
A2	Two Ceramic Tubes with Holding Tube and Safety Sealing Assembly		
XX	Other		
Code	Connection Head	IP Rating	
K	KNE, Aluminum	67	
D	DIN A, Aluminum	54	
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	Process Connection		
U21	1-1/2" ANSI 150 LBS RF		
U22	1-1/2" ANSI 300 LBS RF		
U31	2" ANSI 150 LBS RF		
U32	2" ANSI 300 LBS RF		
G21	DIN DN40 PN16 RF		
G23	DIN DN40 PN40 RF		
G31	DIN DN50 PN16 RF		
G33	DIN DN50 PN40 RF		
XXX	Other		
Code	Process Connection Material		
A10	AISI 316(DIN1.4401)		
A00	Equal to Holding Tube		
XX	Other		
Code	Extension Length "N" [mm]		
200	200		
XXX	Other		

Code	Insertion Length "LU" [mm]
0500	500
XXXX	Other
Code	Holding Tube Insertion Length "LP" [mm]
0200	200
XXXX	Other
Code	Additional Options
G	Cable Gland
A	Adjustable Process Connection
X	Other
Typical Model Number: IS30C 1 B 2 12 50 A C724 A10 D32 A1 K N U21 A10 200 0500 0200	

- (1) C 799: Ceramic - 99.7% Al₂O₃, According to DIN EN 60672
- (2) SA: Silicon Carbide - 99.1% SiC, According to DIN EN 12212
- (3) LT-1: Metal Ceramic - 76% chromium/24% Al₂O₃

Figure for High Temperature Thermocouples

