

MODEL INFORMATION – IS20R

Model	Product Description		
IS20R	Series IS20R Thermoresistance-Insert with Mineral Insulation For Surface Temperature Measurement - According to IEC 60751		
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	TCR [$\Omega/\Omega/^{\circ}C$]	Temperature Range [$^{\circ}C$]
D	Pt100 - DIN/IEC 60751	0.00385	-200 to +600
X	Other		
Code	Precision Class	Tolerance	
A	Class A	$\pm[0.15+0.002 t]^{\circ}C$	
B	Class B	$\pm[0.30+0.005 t]^{\circ}C$	
Code	Number of Elements- Electrical Circuit		
13	Single - 3 Wires		
23	Double - 3 Wires		
Code	Insert Diameter d		
30	Ø 3 mm		
45	Ø 4.5 mm		
60	Ø 6 mm		
80	Ø 8 mm		
XX	Other		
Code	Sheath Material		
A10	AISI 316(DIN 1.4401)		
A11	AISI 316Ti(DIN 1.4571)		
XXX	Other		
Code	Assembly Type	Material	
N1	Nipple Assembly	AISI 316(DIN 1.4401)	
U1	Nipple-Union-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	AISI 316/DIN 1.4401	
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		
RP	Fixed Connection by Welding, with Removable Weld Pad - 45X25 mm		
RC	Fixed Connection by Welding, with Removable Adiabatic Cover		
ET	End Type		
XX	Other		
Code	Insertion Length "LU" [mm] or Nominal Length "LN" [mm]		
1500	1500		
XXXX	Other		
Code	Extension Cable Type	Temperature [$^{\circ}C$]	
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	No for Assemble Type Code - N1, NF, U1, NW		
X	Other		
Code	Cable Length "LC" [mm]		
1000	1000		
0000	No for Assemble Type Code - N1, NF, U1,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: IS20R 3 D A 13 60 A10 NF K N 120 U11 RP 1500 N 0000 G F

Figure for Surface Temperature Measurement Thermoresistances

