SM3 Surface Pad Model Code

SM3 - T1 - T2 - T3 - T4 - T5 - T6 - T7 - T8 - T9

SM3	Surface Pad Temperature Sensor

T1	Sensor Type
K	**Type K Thermocouple**
J	Type J Thermocouple
T	Type T Thermocouple
E	Type E Thermocouple
N	Type N Thermocouple
R3LT	**3 Wire RTD - Low temperature (-50 to 260ºC)**
R3HT	3 Wire RTD - High temperature[2] (-50 to 482ºC)
R3ET	3 Wire RTD - Extreme temperature[2] (-50 to 850°C)
R3VT	3 Wire RTD - Vibration construction[2] (-50 to 482ºC)
R3CT	3 Wire RTD - Cryogenic temperature (-200 to 260°C)
R4LT	**4 Wire RTD - Low temperature (-50 to 260ºC)**
R4HT	4 Wire RTD - High temperature[2] (-50 to 482ºC)
R4ET	4 Wire RTD - Extreme temperature[2] (-50 to 850°C)
R4VT	4 Wire RTD - Vibration construction[2] (-50 to 482ºC)
R4CT	4 Wire RTD - Cryogenic temperature (-200 to 260°C)

T2	Element - Junction Type
G	Thermocouple Grounded
U	**Thermocouple Ungrounded**
A	**RTD 100Ω Pt. 385 Class A[2]**
B	RTD 100Ω Pt. 385 1/10 Class B
C	RTD 100Ω Platinum 392
D	RTD 120Ω Nickel 627 0.806Ω/ºC
E	RTD10Ω Copper 427 0.039Ω/ ºC
F	RTD 1000Ω Pt. 385 Class A[2]

T3	Number of Elements - Junctions
S	**Single**
D	Dual
Other	Consult factory

T4	Sensor Probe Diameter[3]
36	0.188” (3/16”)
14	**0.250” (1/4”)**
38	0.375” (3/8”)

T5	Sensor Probe “L” Length (inches)[3]
“inches”	Specify length in inches for straight probe length
N”inches”	Specify “N” and length in inches for 90° bend

T6	Lead Wire Type[4]
TE	**Teflon (260°C)**
ST	Teflon with SS over braid (260°C)
AT	**Flex armor over Teflon (260°C)**
SF	Fiberglass with SS over braid (482°C) *Thermocouple Only*
AF	Flex armor over fiberglass (482°C)
PT	Poly jacketed flex armor over Teflon (102°C)
Other	Consult factory

T7	Lead wire “A” Length (inches)[3]
“inches”	Specify length in inches

T8	Lead Wire Termination[4]
BE	**Bare ended lead wire**
SC	**Standard male connector (205°C)**
MC	Miniature male connector (205°C)
SL	Spade lugs (thermocouple alloy if available)
CG	1/2” NPT cord grip electrical fitting[3]
Other	Consult factory or SP for special option

T9	Surface Pad Curve - Surface Diameter (inches)
X	**Not applicable - flat surface pad**
“inches”	Surface (pipe) diameter specified in inches

Sensor Probe Sheath & Pad Material
Standard default material is 316/316L stainless steel. Other

NOTES:
1. Part number example: SM3-K-U-S-14-12-AF-36-BE-L
2. Class A tolerance definitions will only be applicable for temperatures under 300°C, Class B tolerance will apply to over 300°C
3. Reference page 2 for part outline and 3 for part dimensions
4. Temperature values given are for maximum continuous rating for specific component of the configuration
5. Bold text indicates most common part selections

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SM3 Surface Pad Sensor Outline

Termination	Lead Wire Type	Transition	Sensor

Termination

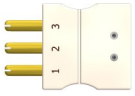
TE


TC


RTD

SC


TC


RTD

MC


TC

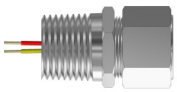

RTD

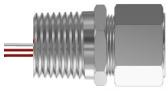
SL


TC


RTD

CG


TC


RTD

Lead Wire Type

TE


TC


RTD

ST


TC


RTD

AT


TC


RTD

SF


TC

AF


TC


RTD

PT


TC


RTD

Transition

Standard Transition

X

(None)

Sensor

Flat

Curve

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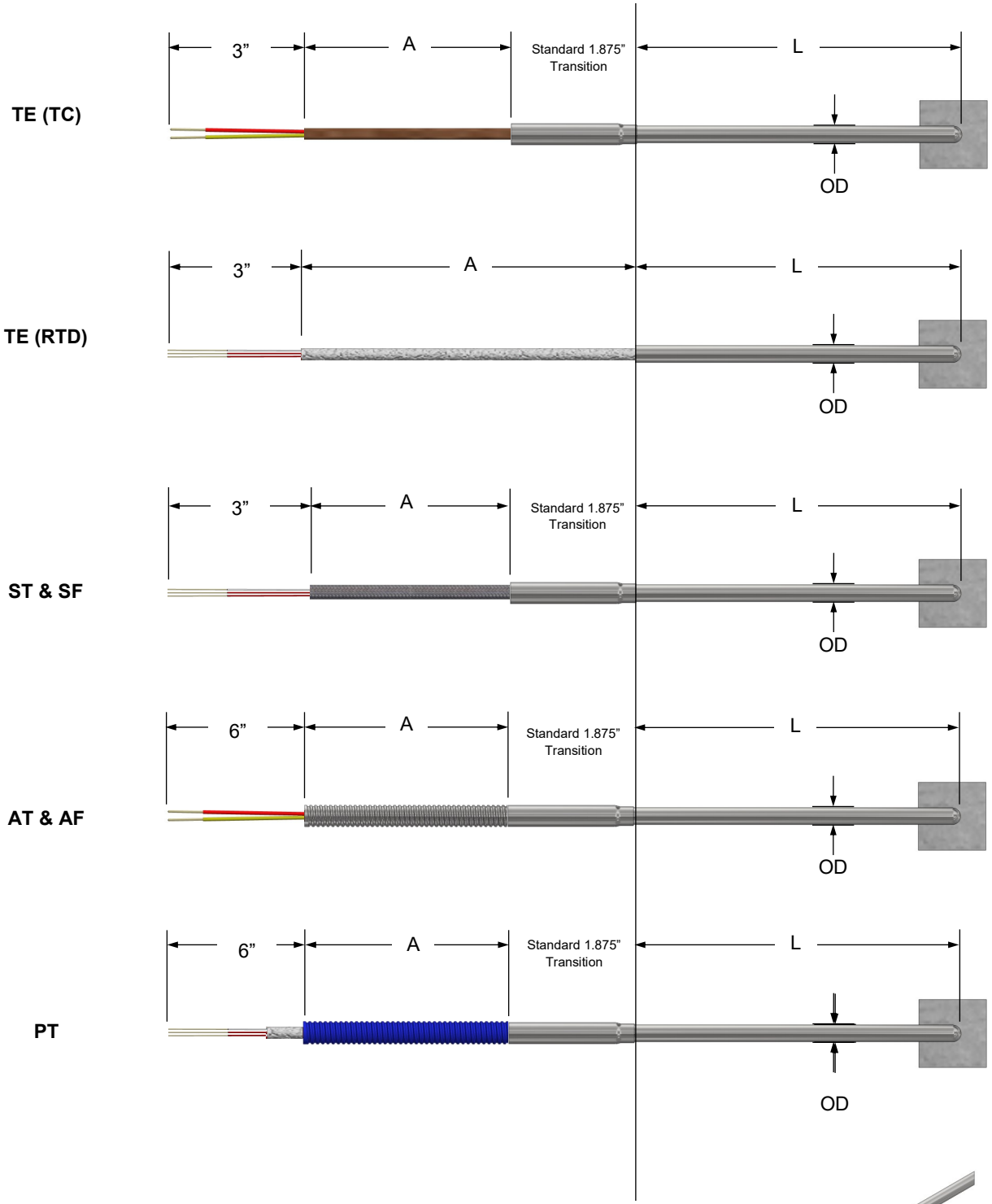
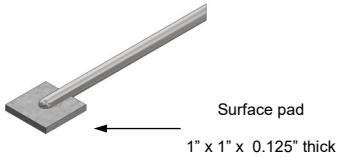
SM3 Surface Pad Dimensions





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