

# 711R / 771R / 791R TRANSITION JOINT RTD SENSORS / BEARING / PLUG & JACK



## MAIN FEATURES

Mineral insulated cable  
Crimp-on-pot sealed  
Adjustable / fixed connection  
Plug & Jack connectors with simplex configuration

## SUGGESTED APPLICATIONS

Liquid & gaseous mediums  
Power & Utilities  
Water treatment plants  
Furnace, Ovens & Boilers  
Machineries, Plants & Tanks  
Autoclaves / Pharmaceuticals  
Bearing temperature / Turbines



**TRANSITION JOINT RTD  
WITHOUT HEAD**

## BASIC DESCRIPTION

Reference standard : IEC-751  
Sensor type : Pt-100 [100Ω ± 0.06%]  
 $\alpha$  value : 0.00385 ± 0.000063 z / z / °C  
Range : -200°C to +650°C  
Thin film : -200 to 400°C, Ceramic sensor : -50 to 650°C  
Accuracy : Class A  
Internal leads : Copper, mineral insulated cable with compact mass of Magnesium Oxide, brazed at element end and terminated at top of the sheath by using PTFE coated multi stranded copper wire  
Termination : Pot sealed  
Wire colour code : Red / Red / White + Black / Black / Yellow

## PRODUCT SPECIFICATION

### STANDARD VERSION [CODE : 711R]

Sensor : Pt-100, Class A, Duplex, 3-Wire  
Sensor material : SS 316  
Sensor diameter : Ø6 mm  
Sensor length : 300 mm  
Connection type: Adjustable  
Process Connection : ½" NPT (M)  
Lead wire type : PTFE / PTFE / SS braided  
Lead wire length : 3000 mm [3 Mtr.]

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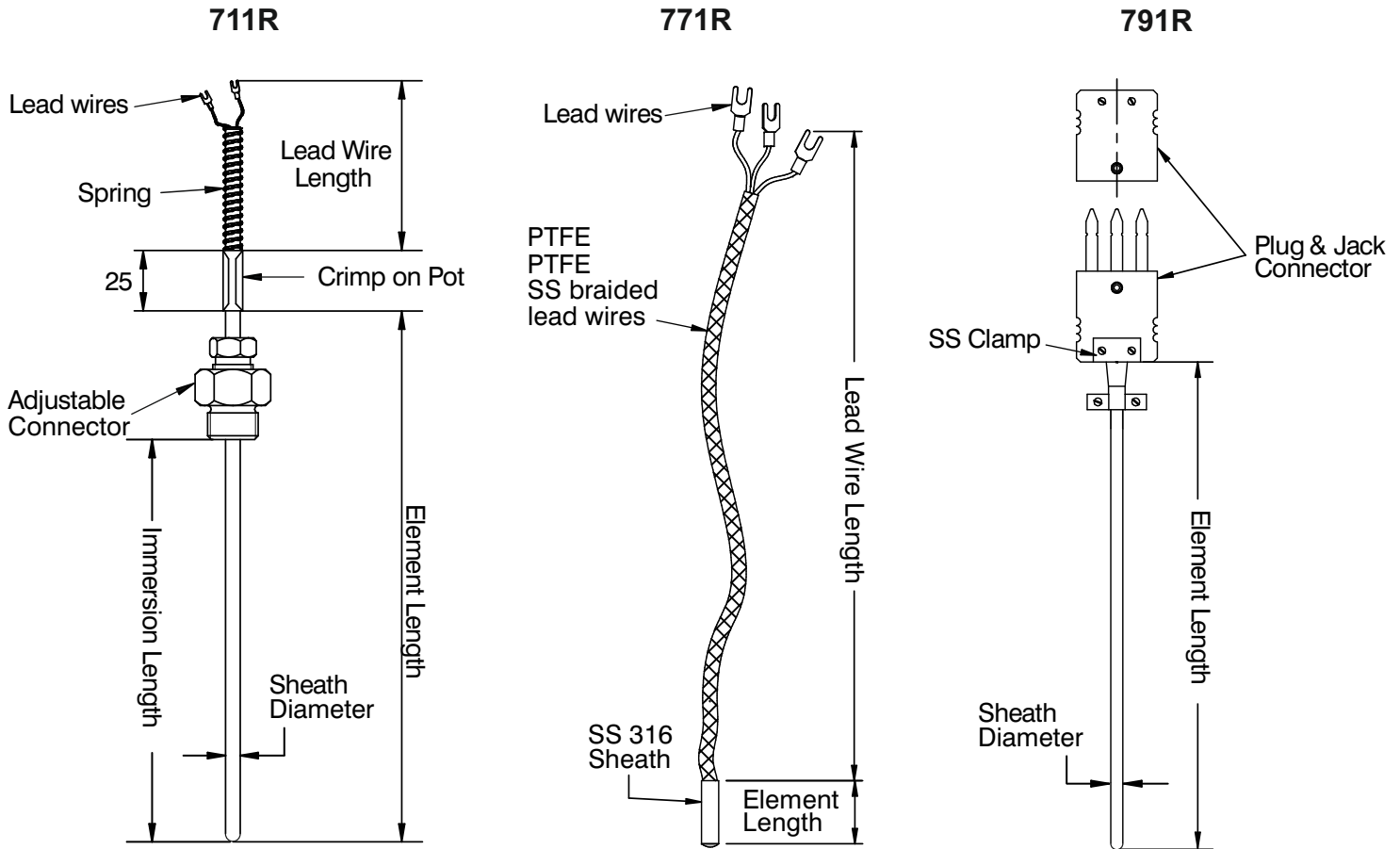
### STANDARD VERSION [CODE : 771R]

Sensor : Pt-100, Class A, Simplex, 3-Wire  
Sensor material : SS 316  
Sensor diameter : Ø6 mm  
Sensor length : 25 mm  
Lead wire type : PTFE / PTFE / SS braided  
Lead wire length : 3000 mm [3 Mtr.]

### STANDARD VERSION [CODE : 791R]

Sensor : Pt-100, Class A, Simplex, 3-Wire  
Sensor material : SS 316  
Sensor diameter : Ø6 mm  
Sensor length : 250 mm  
Cold End Termination: Standard Plug & Jack Connector  
Connection type: Adjustable  
Process Connection : ½" NPT (M)

## REFERENCE DRAWINGS



## MODEL CODING

MODEL	-	ELEMENT	SHEATH MATERIAL	SHEATH DIAMETER	SHEATH LENGTH	/
711R = Transition Joint RTD 771R = Bearing Temperature RTD 791R = Plug & Jack Connector RTD		P1 = Pt-100, Class A, Duplex, 3-Wire P2 = Pt-100, Class A, Simplex, 4-Wire P3 = Pt-100, Class A, Simplex, 3-Wire P4 = Pt-100, Class A, Simplex, 2-Wire P5 = Pt-500, Class A, Duplex, 3-Wire P6 = Pt-500, Class A, Simplex, 4-Wire P7 = Pt-1000, Class A, Duplex, 3-Wire P8 = Pt-1000, Class A, Simplex, 4-wire	S16 = SS 316 S6L = SS 316L	S6 = Ø6mm S8 = Ø8mm S9 = Ø10mm S7 = Ø12mm	L = Insertion length (Mentioned in 'mm')	

COLD END TERMINATION	/	LEAD WIRE TYPE	LEAD WIRE LENGTH	/	PROCESS CONNECTION	/	OTHER OPTIONS
J1 = Standard plug & jack connector J2 = Miniature plug & jack connector J3 = Standard OMEGA connector J4 = Miniature OMEGA connector J5 = Standard LEMO connector J6 = Miniature LEMO connector		PEL = PTFE insulated PPL = PTFE / PTFE insulated PPS = PTFE / PTFE / SS braided FFS = Fiber Glass / Fiber Glass / SS braided PPR = PTFE / PTFE / Silicon Rubber	WL = Wire length (Mentioned in 'mm')		M2N = ¼" NPT (M) M2B = ¼" BSP (M) M4N = ½" NPT (M) MBN = ½" BSP (M) M2M = M12 X 1.0P M4M = M20 X 1.5P M3B = ¾" BSP (M)		XA = Tag plate in SS 304 XB = Tag plates in SS 316 TA = 5 - point factory calibration certificate

**ORDERING EXAMPLE**      711R-P1.S16.S6.150/XX/PPS.3000/M4N/XA.TA.

## QUICK ORDER DETAILS / FEEDBACKS