

Sting Type thermocouple is an open junction spring loaded thermocouple, it is particularly used in Aluminium industries for hot billet temperature measurement. This is a fixed mounted assembly which is installed where the billets come out of the furnace, each billet rolls down the ramp and strikes the thermocouple and its temperature is measured simultaneously. Whole assembly is constructed in a rigid manner so as to withstand high temperature exposure and vibrations



The open junctions helps improve the life of this sensor, if we use a normal thermocouple with a closed junction at this application, the junction will wear away very rapidly and the life of the sensor will be very less. As the junction is open there is no wear, slight wear to each element can be compensated by repositioning the element which is easily possible.

Individual elements, Insulation material and housing can be disassembled and replaced as per requirement. This improves the life of the sensor even more.

## Technical Specification

S.No.	Description	Value
1	Temperature Range	Upto 700°C
2	Thermocouple Type	K Type
3	Working Temperature	Upto 500°C (except element)
4	Housing Material	Stainless Steel
5	Insulation Material	Alumina Tube, Mica sheet and Glass wool
6	Insulator Dimensions(mm)	12(OD) x 8(ID) x 645(L)
7	Dimensions(mm)	825(L) x 68(W) x 74(H)
8	Element(mm)	7(DIA) x 825(L)
9	Mounting	Mounting Bracket and screw holes provided.
10	Junction Style	Open Junction (On spot Grounding)
11	Termination	Cable with connector
12	Spring compression	~30mm

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