

semblies & Hardware

RTD & Thermocouple Assemblies for Hazardous Locations

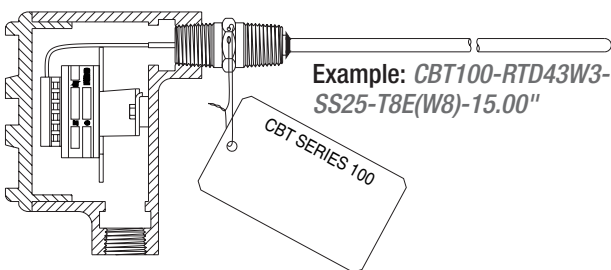


CBT 100, CBT 200 and CBT 300 Series assemblies meet U.S. and Canadian standards (NRTL/C, CSA) for use in hazardous locations as defined by NEC Class 1, Division 1, Groups B, C & D; Class II, Groups E, F & G; and Class III.

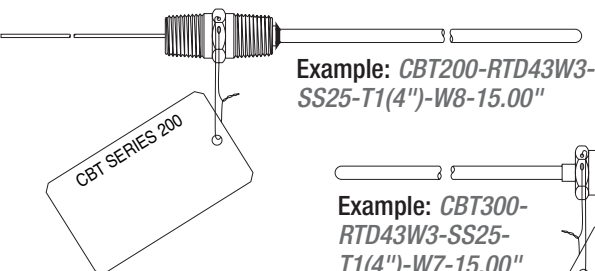
CBT 100 Series sensor-terminal head assemblies are available in all thermocouple calibrations and in RTD assemblies with 100, 200, 500 and 1000 ohm platinum, 10 ohm copper or 120 ohm nickel elements. Assemblies are available with stainless steel or Inconel sheaths, a W8 mounting fitting and explosion-proof terminal head with terminal strip. An optional 4-20mA transmitter can be provided.

CBT 200 and CBT 300 assemblies are NEC-compliant replacement probes for use with UL and CSA-approved terminal heads in hazardous locations. CBT 200 provides a W8 fitting for attachment to the terminal head and to the vessel. CBT 300 provides a W7 fitting for attachment to the terminal head. A separate adjustable fitting is required to attach the probe to the vessel.

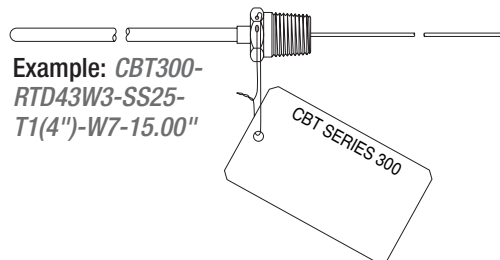
Certificate No. LR111664-1



Example: *CBT100-RTD43W3-SS25-T8E(W8)-15.00"*



Example: *CBT200-RTD43W3-SS25-T1(4")-W8-15.00"*

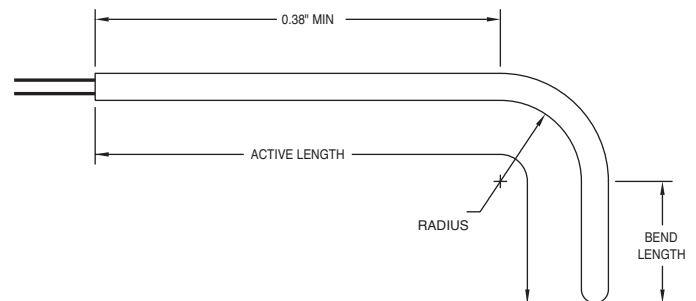


Example: *CBT300-RTD43W3-SS25-T1(4")-W7-15.00"*

Sensor Probes with 90° Bends

Thermocouple and RTD sensors are available with a single right angle (90°) bend in the sheath. This is indicated by adding a dimension and the letter "R" to the catalog description. The dimension indicates the distance from the tip of the sensor to the start of the bend. The standard bend radius is 1/2" for 0.062" diameters and smaller, 3/4" for 0.125"-0.250" diameters, and 2" for 0.375" diameters.

Example: *RTD43W3-SS25-T1-12.00", 4.50R*



In general accepted practice, the bend should never start closer to the tip than 3" for any RTD; or for thermocouples, 1/2" for 0.062" and smaller probe diameters; 2" for 0.375" probe diameters or 4 times the sheath diameter for 0.125" through 0.250" probe diameters. The termination should not be closer than 3/8" from the completion of the bend. For 0.375" probe diameters, the termination should be no closer than 2" from the bend. Type ERTD and MRTD assemblies should never be bent. Other bend radii and multiple bends are available as custom items. Consult factory.

