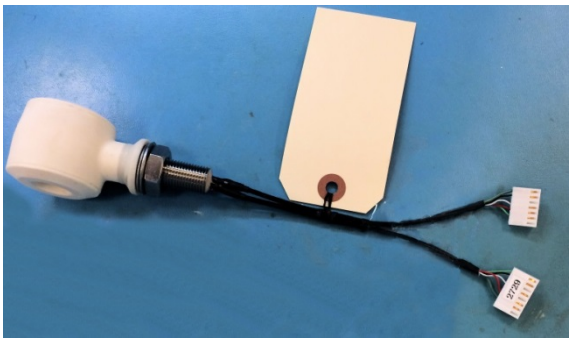
How to Install the CT-EK Analog Short Stem Sensor

The CT-EK Analog Short Stem Sensor is designed to be installed into a housing or other type of sensor platform of another manufacturer's design.

OVERVIEW

TRDI delivers a fully tested and assembled CT-EK sensor with the connectors installed. The EK Sensor should be mounted into a 0.625-inch clearance hole and secured with the supplied nut. However, the nut will not fit over the two connectors. The connectors must be removed before installing the sensor.



TO REMOVE THE CONNECTORS:

1. Label at least one of the cables to help remember which cable has the 7-pin connector and which one has the 8-pin connector. When the two small tabs on the connectors are facing down as shown below, pin 1 is on the right side.
2. Use a small probe to gently apply a perpendicular force (2.94 N (300 grams) average) to the metal tab on the pins.

Pushing too hard can cause the tab to break or deform the pin.

3. While holding the tab down, gently pull the wire out of the connector. Repeat for all pins.
4. Remove the nut and washer from the sensor.

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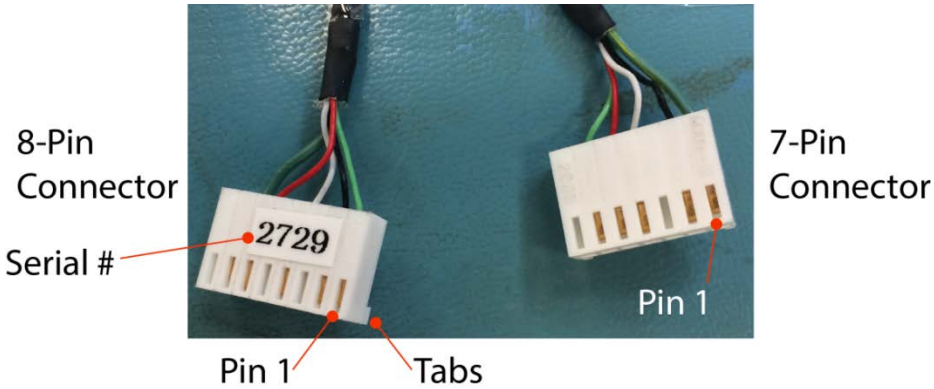
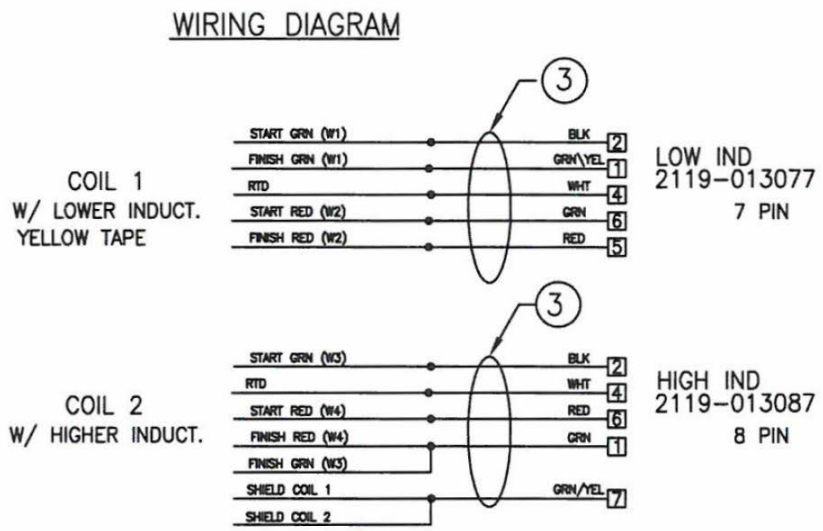


TO INSTALL THE CONNECTORS:

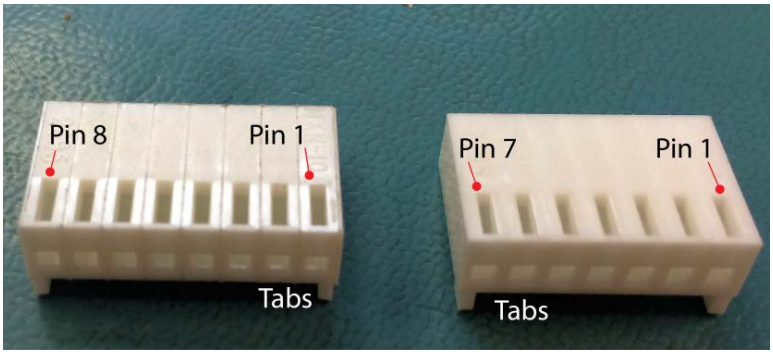
1. Install the sensor and tighten the nut.

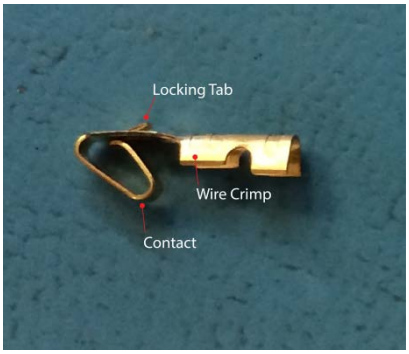
> Do not torque the conductivity cell when tightening the CT Sensor. Doing so may damage the bond between the ceramic cell and the stem. Such damage is not covered under the warranty.

2. Use the wiring diagram and pictures to reconnect the wires into the connectors. As each pin is fitted into the connector, ensure that the locking tab holds the pin in place. Use a knife blade to gently bend the locking tab out if needed.



> Label one of the cables **before** removing the connectors.


Pin 8
Pin 1
Tabs
Pin 7
Pin 1
Tabs


Locking Tab
Wire Crimp
Contact