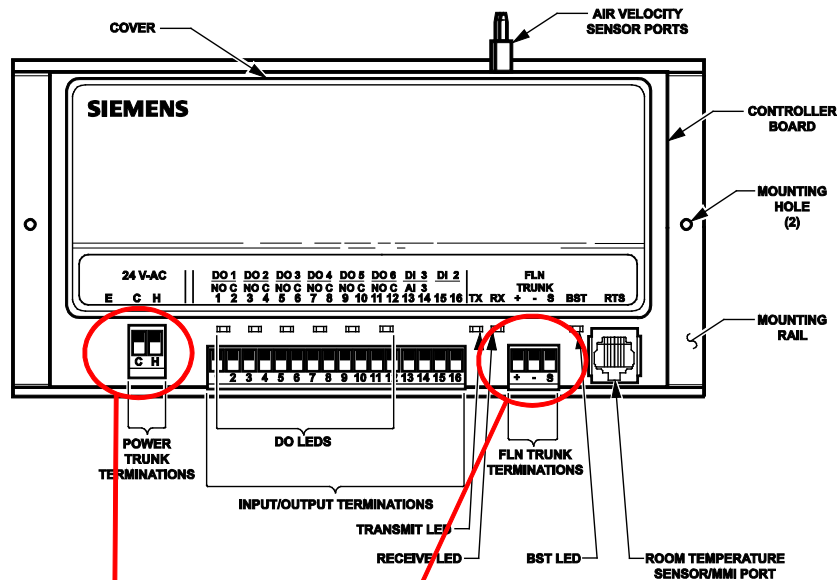


2011 TEC Installation Addendum

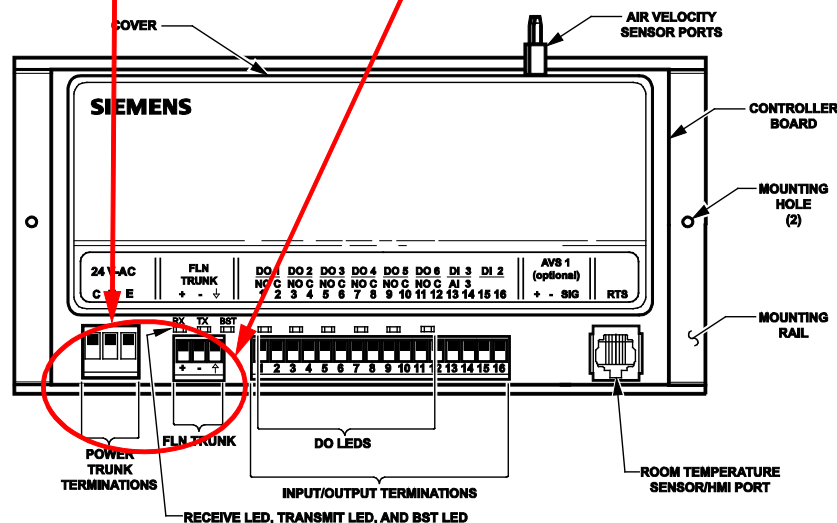
Due to the earthquake in Japan, we are unable to continue delivering TECs based on the HC11 8 bit processor. A decision was made to switch the applications over to the Siemens 9S12X-based TECs. This is a 16-bit processor based TEC running at 25MHz. The same applications that were available on the HC11-based TECs were transferred to the 9S12X-based TECs.

The only external difference is the placement of the RS-485 (P1 network) connector and the replacement of the 2 pin power connector with a 3-pin power connector. See below for a detail of the connector changes.

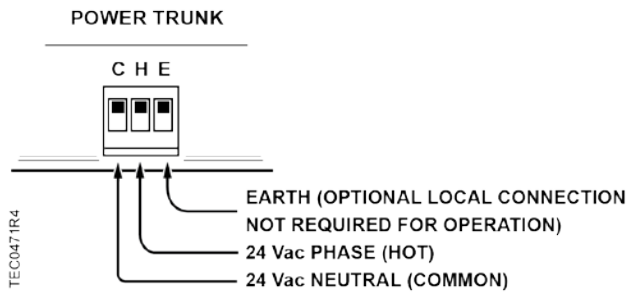
HC11 Based



9S12X Based



TEC09691



NOTE:

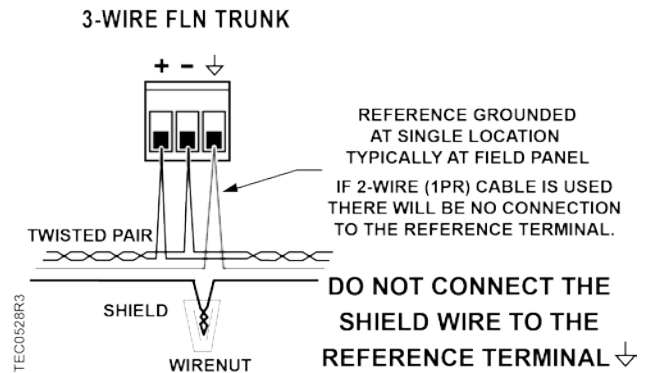
As a standard grounding procedure, ensure that a ground wire is connected directly from neutral of the 24Vac secondary (the side that connects to the "C" terminal of the TEC) to earth.

	<p>CAUTION</p>
	<p>The new TEC has a 3-wire power connector, but a 3-wire power cable is not required. The new TEC may be wired with 2-wire power as the older TEC was wired. It is very important that the neutral that supplies the TEC be earth grounded at the source of the 24Vac power. The earth to neutral jumper is placed at the stepdown transformer. Neutral must connect to the "C" terminal of the TEC power plug. The new TEC has been tested for operation from either 2-Wire power and a connection from Earth to the "E" terminal or with just the 2-wire power, (No connection between the "E" and earth).</p>

Please note the new TEC has a 3-wire FLN connection (Pos, Neg and Communication ground).

When using twisted pair cable, bypass the shield around the TEC using a wire-nut for the shield connection. Do not connect the shield to the communication ground terminal.

See the "*Network Wiring Guidelines for Field Panels and Equipment Controllers*" (125-3002) for additional network wiring information concerning the use of 1 pair shield cable and 1.5 pair shielded cable.



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