



Neo-Dyn®
28150 Industry Drive
Valencia, CA, 91355
661-295-4000

1/30/2007

Use of the I-option Junction Box for Hazardous Locations Grounding and Bonding

ITT Neo-Dyn hazardous location electrical assemblies, which are used in our Enclosure 6 Pressure and Temperature Switches, come with various agency approvals such as Underwriters Laboratories (UL) and Canadian Standards Association (CSA). These assemblies are provided with an integral ground wire. When ordering an enclosure 6 switch with our I-option Junction Box, Neo-Dyn achieves bonding by attaching the junction box via the conduit connection directly to the electrical assembly. This forms a continuous path from the electrical assembly enclosure to the junction box and to the green ground screw provided within the junction box. The green ground wire is removed as it is not needed for the I-option configuration.

The National Electric Code (NEC) states in Article 250.92B that threaded couplings or threaded bosses on enclosures where made up wrench tight are permitted for grounding. While this practice is acceptable per the NEC, it is the responsibility of the user to verify that the ground path remains compliant after installation. Local electrical codes may require that specific tests be performed to verify that an effective bond is maintained.