

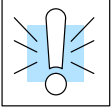
Installation & Field Wiring Guidelines

In This Chapter. . . .

- Installing the Module in the Base
 - General Guidelines for Field Wiring
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How to Install the Module

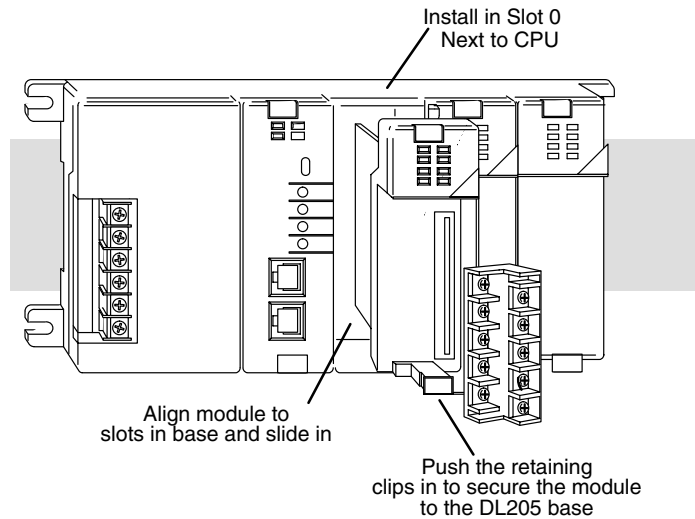
The D2-CTRINT module must be installed in slot 0 next to the CPU. It can only be used with the DL205 PLC family.



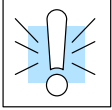
WARNING: Power to the PLC **must** be disconnected before inserting or removing the D2-CTRINT module. Failure to disconnect power could result in serious damage to the module, the PLC or both.

Insert the Module

Insert the D2-CTRINT module into the slot next to the CPU (slot 0). Locate the module so the printed information is oriented in the same direction as the markings on the PLC. Be careful to align the female connector on the printed circuit board of the module with the male connector on the PLC mother board. Press the module into the slot until the front of the module is flush with the front of the PLC.



General Guidelines for Field Wiring

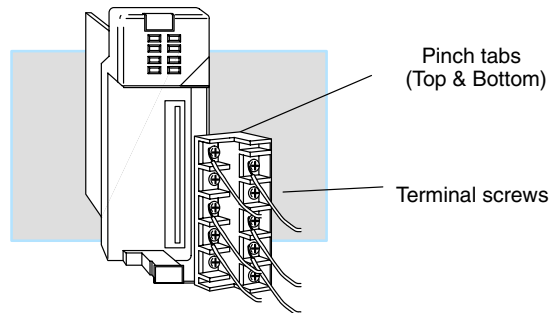


Wiring Guidelines

WARNING: To minimize the risk of personal injury or property damage, remove all power from the PLC and field devices before wiring the module.

The D2-CTRINT High Speed Counter Interface Module features a removable terminal block. It is held in place by pinch tabs located at the top and bottom of the terminal block.

Before removing the terminal block, be sure that the power to the module is disconnected. To remove the terminal block, squeeze the pinch tabs and pull the terminal block from the module.

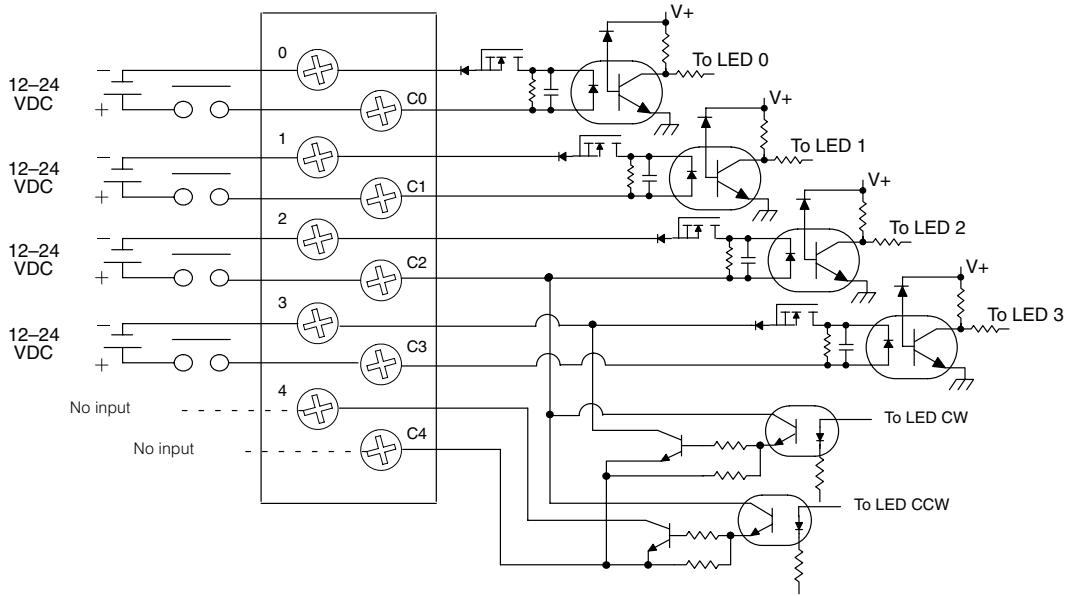


Consider the following wiring guidelines when wiring your system.

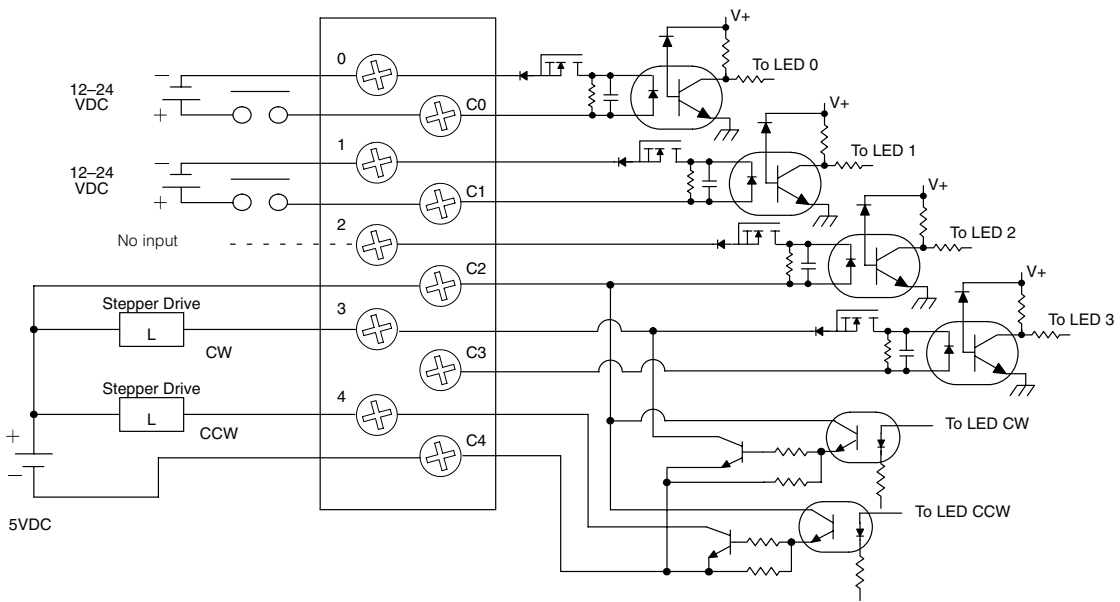
1. There is a limit to the size of wire the modules can accept. 16 AWG to 24 AWG is recommended for the Counter Interface Module wiring. Smaller AWG is acceptable.
2. Always use a continuous length of wire, do not combine wires to attain a needed length.
3. Use the shortest possible cable length.
4. Where possible, use wire trays for routing.
5. Avoid running wires near high energy wiring.
6. Avoid running input wiring in close proximity to output wiring where possible.
7. To minimize voltage drops when wires must run a long distance, consider using multiple wires for the return line.
8. Avoid running DC wiring in close proximity to AC wiring.
9. Avoid creating sharp bends in the wires.
10. Ground all shields to their respective signal source.

After the wiring is finished, return the terminal block to the module, making sure the terminal block is tightly seated.

Wiring Diagram for Modes 10, 20, 40, 50 and 60



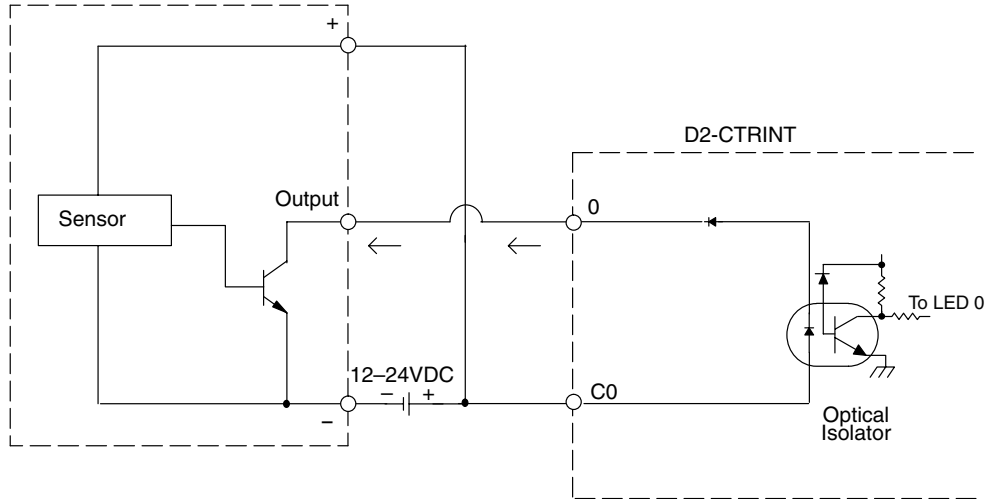
Wiring Diagram for Mode 30



Installation & Field
Wiring Guidelines

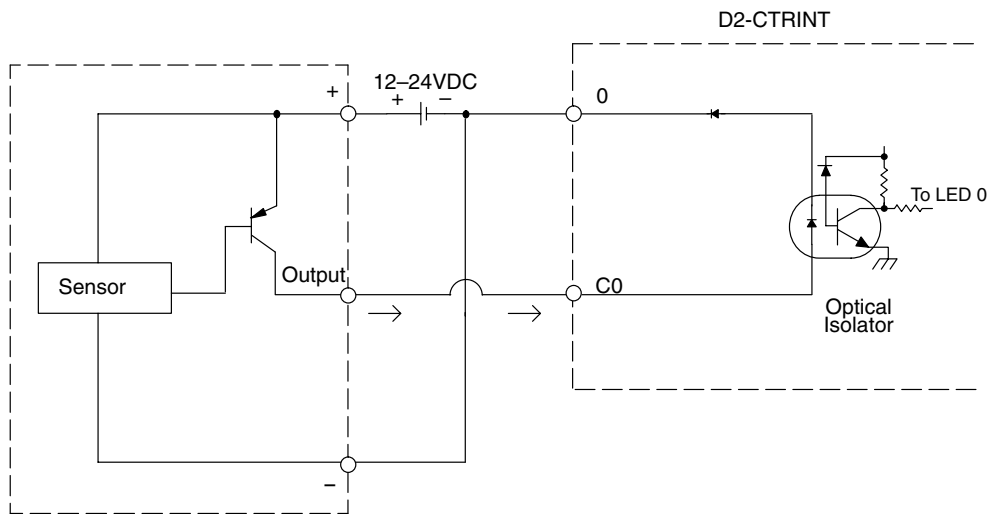
Solid State Field Device Wiring

NPN Field Device Example



(NPN) Current Sinking Field Device

PNP Field Device Example



(PNP) Current Sourcing Field Device

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