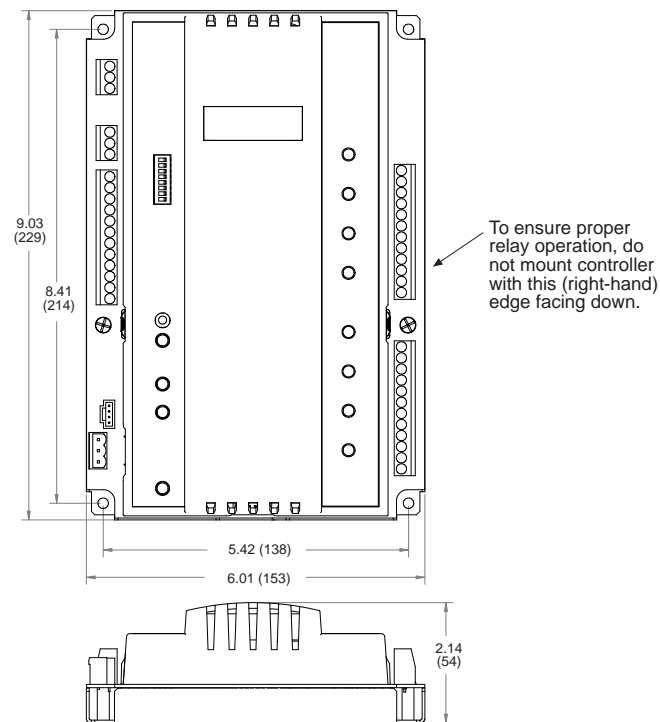


Mechanical



Wiring Rules

These modules are intended for installation within the enclosure of another product.

Do not remotely ground any part of the input sensor wiring.

Remote grounds connected to the return terminal could make the system operate incorrectly or damage the equipment.

The signal return is not true earth ground. It is an electronic reference point necessary to interpret the sensor properly.

For reliable input operation, follow these input wiring guidelines:

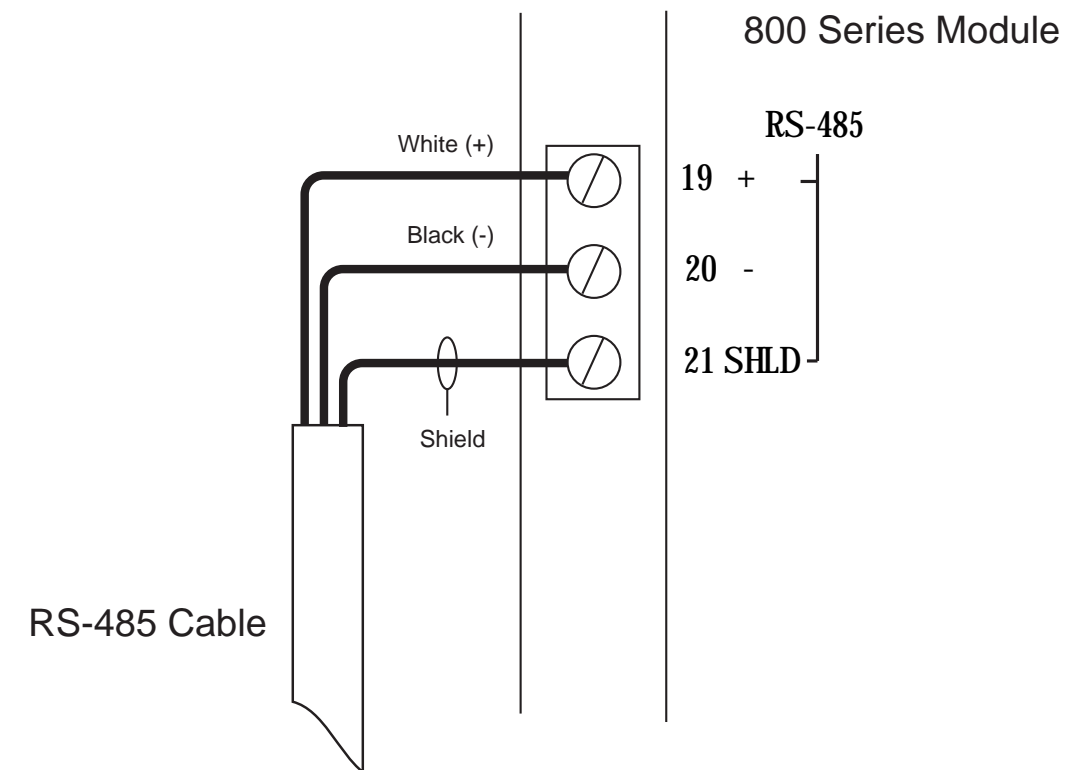
- Never lay wires across the surface of a printed circuit board.
- Wires should never be within 1 in. or 25 mm of any component on a printed circuit board.
- Use shielded input wire.
- Terminate the shield of the input wires at one end of the run only—preferably at the end where your I/O module is located.
- Be careful when stripping wire not to drop small pieces of wire inside the cabinet.
- Don't run your input wiring in the same conduit with AC power.
- Don't run your input wiring in the same conduit with your output wiring.

Grounding the Controller

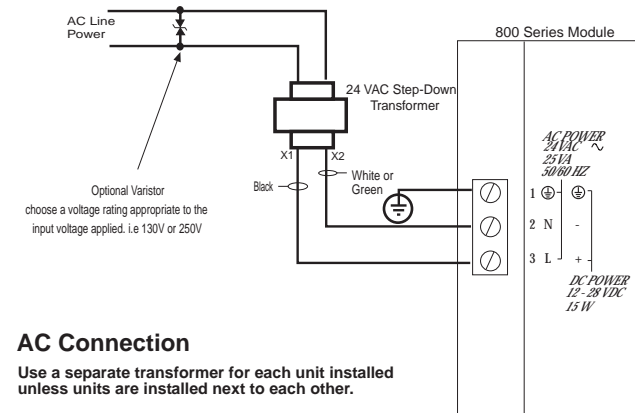
To insure proper operation of the controller, it is imperative that it be connected to a good earth ground. It is important that this connection be made as close to the module as possible.

Caution: Earth ground (⊖) must be connected to avoid module damage.

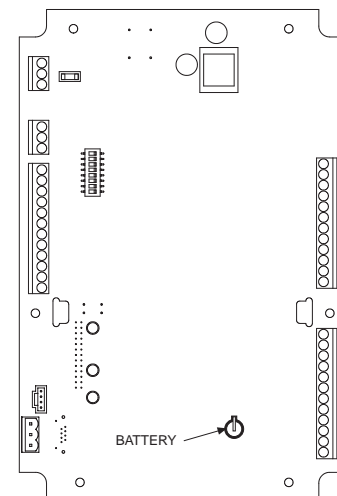
RS-485 Connection



Power & Battery Backup Connection

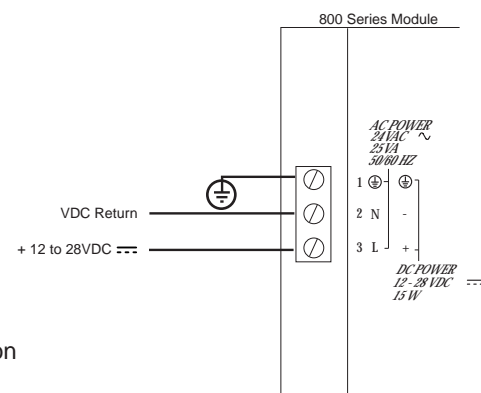


Caution: Use care when attaching power wiring to these connectors. They are not to be used as a strain relief. The connectors cannot withstand excessive bending or flexing.



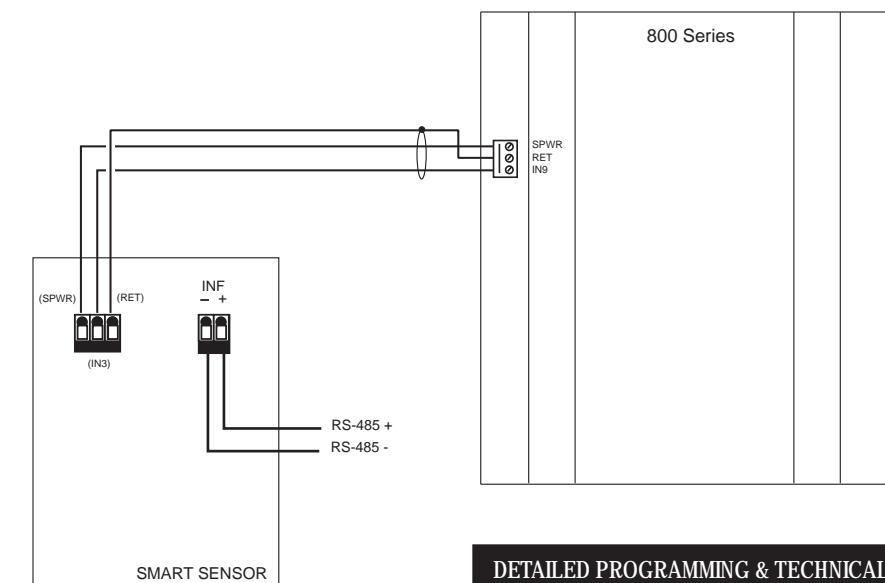
BATTERY ENABLE INFORMATION

During shipment, an insulating plastic tab is inserted under the clip on the battery to prevent it from draining prior to installation. To activate the battery, this tab must be removed. Remove the cover to access the board.



DC Connection

Smart Sensor Bus Interface (IN9 & SPWR)



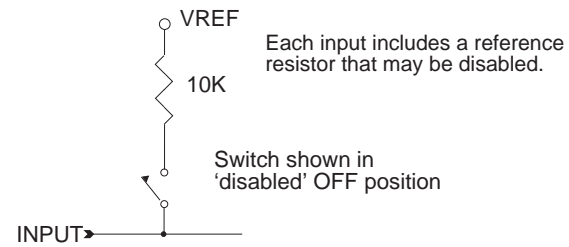
DETAILED PROGRAMMING & TECHNICAL INFORMATION

Refer to the following documents:

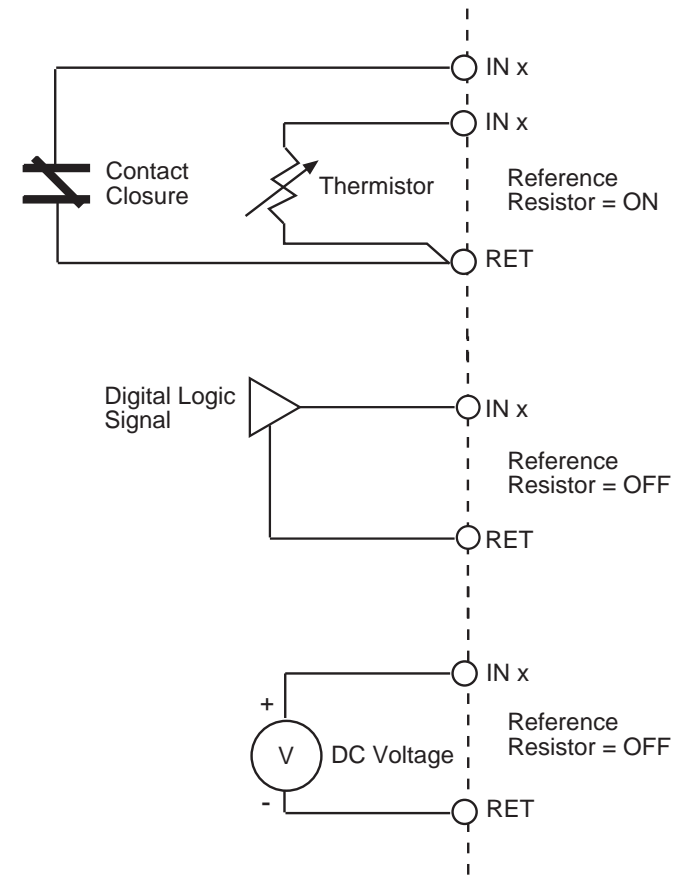
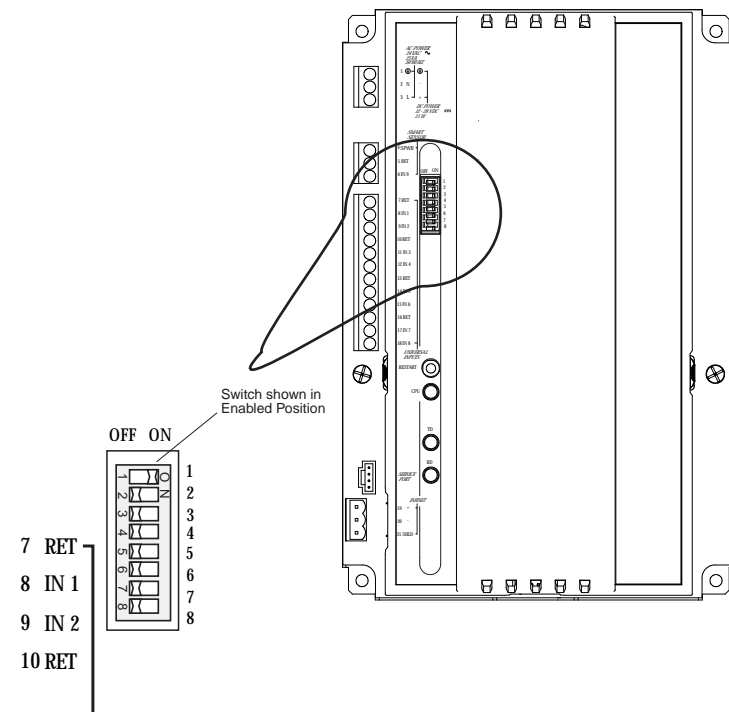
i2 Controller Technical Reference, 30-3001-861

b3 and b4920 Controller Technical Reference, 30-3001-862

Inputs



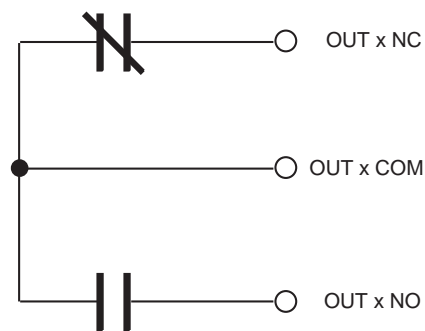
Accessing the Reference Resistor Switch



Max DC Input Voltage = 5V

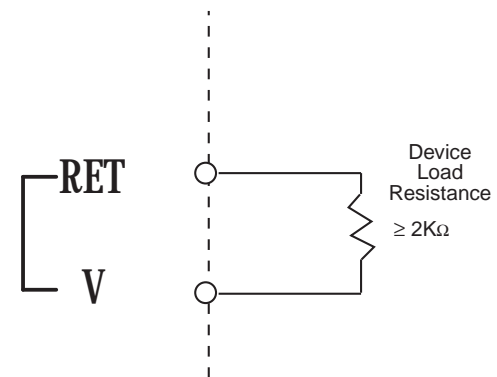
Outputs

Digital Relay Output



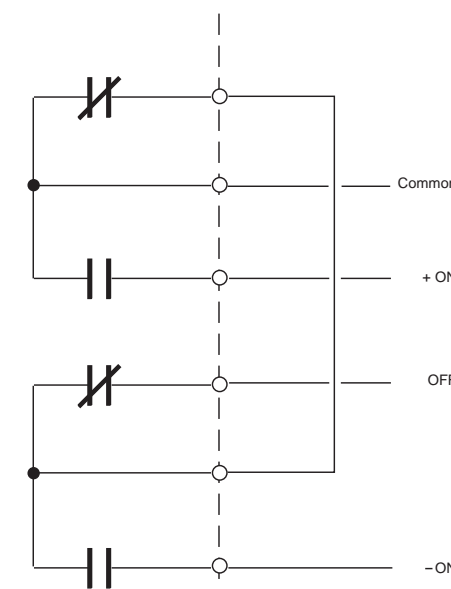
Output Rating: 24 VAC @ 3 A
30 VDC @ 3 A

Voltage Output (804 only)



Voltage Output: 0 - 10VDC

Tristate from 2 Relay Outputs



Although the controller contains eight separate form C relays, adjacent pairs of these can be combined at any one time to form standard Tri-state outputs:

