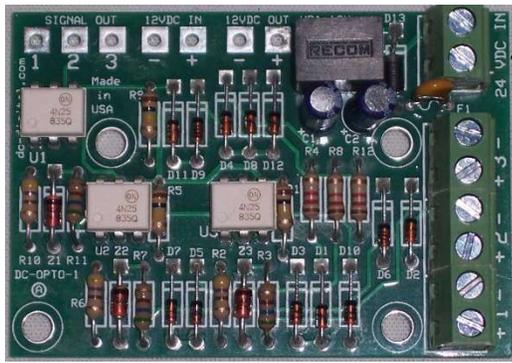# Field Connections to DC-Digital "Term" type Displays

DC-Digital offers various kinds of interfacing/controls for many of our products – one of which uses optocouplers to isolate and protect the display's circuitry. We refer to this board as the "opto board". The opto board allows for up to three separate inputs (dry contact or 5-30VDC PNP sourced) to interface and control the display. The board also allows a hardwired 24VDC to power the display should you desire that over the standard 12VDC wall adapter.
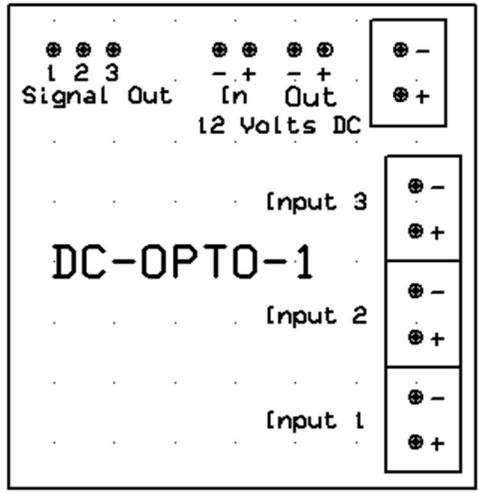
Actual picture of the DC-Opto board

24VDC Input – Powering the display instead of using an external wall adapter.

Terminals 1, 2, and 3 – inputs to control the display. Each terminal has a "+" and a "-" and can be either a momentary dry contact closure or 5-30VDC PNP input pulse (or a combination of the two).
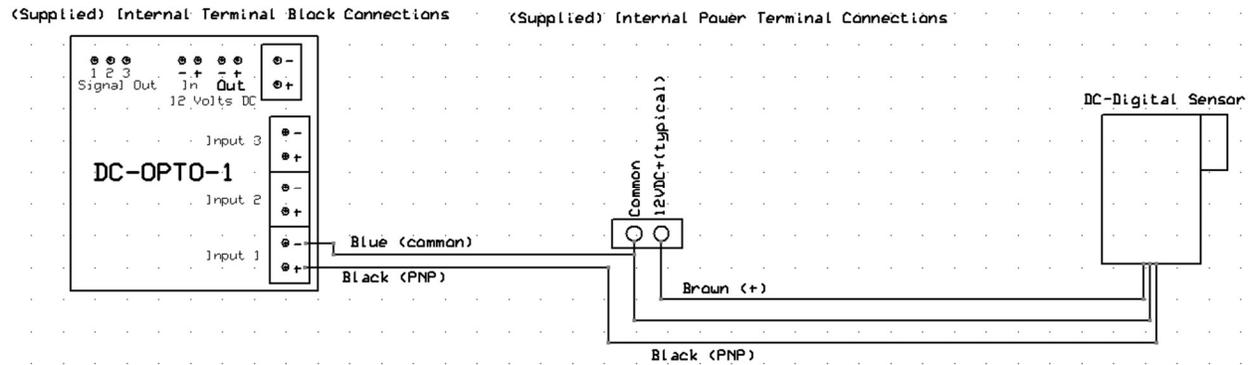
Drawing of the DC-Opto board

Standard opto board configurations for DC-Digital products:

DC-Digital counters (DC-XXC-Term, C-Term-S)
- Terminal 3: Reset to zero
- Terminal 2: Decrement by 1
- Terminal 1: Increment by 1

DC-Digital up timers (DC-XX-T-UP-Term, T-UP-Term-S)
- Terminal 3: Reset & start the timer (in one trigger)
- Terminal 2: Reset the timer (must be stopped)
- Terminal 1: Start and stop the timer

DC-Digital BCD down timers (DC-XXT-DN-BCD)
- Terminal 3: Reset & start the timer (in one trigger)
- Terminal 2: Reset the timer (must be stopped)
- Terminal 1: Start and stop the timer

We can also modify the units to behave in a different manner such as maintained input (for example - maintained contact closure for start, open contact closure for reset)

DC-Digital models with a diffused or retro-reflective sensor:

We also have models with diffused reflective or retro-reflective sensors. These sensors will have their required 12VDC supplied from the unit and interface via the opto board as shown in the drawing above.

We can adapt this opto input to many of the products we make along with custom designed units. Contact us for more information.

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