

# Electrical Interface

## LT/NE - No Electronics

<b>Motor</b>	<p>Bipolar motor, 2-phase, 4 wire, IDC connector.                      Wiring color code: Red A+, Blue A--, Green B+ and Black B-  <i>TriContinent recommends that this pump be operated using a 24VDC bipolar chopper drive, 450ma per phase, half-step or micro-step mode. Higher voltage may be required when the step period is close to the L/R time constant.</i></p>
<b>Opto</b>	<p>Honeywell slotted optical switch, 4-wire, IDC connector.                      Wiring color code: Black-IREDA Anode, Orange-Detector Collector, Brown-IREDC Cathode and Red-Detector Emitter.</p>

## LT/FV - Fixed Volume

<b>Power</b>	<p>24 VDC @ 2 amps                      5 VDC @ 1 amp   <i>Optional on board 5 volt regulator is available.</i></p>
<b>Trigger (Input)</b>	TTL, Low level triggers pump for one cycle, dispense and fill.
<b>Busy (Output)</b>	TTL, set high when pump is operating.

## LT/EZ - Fully Programmable

<b>Power</b>	<p>24VDC @ 1 amp  <i>TriContinent recommends that this pump be operated using a 24VDC bipolar chopper drive, 450ma per phase, half-step or micro-step mode. Higher voltage may be required when the step period is close to the L/R time constant.</i></p>
<b>Communications</b>	<p>RS-485                       Protocol and command set are available upon request.</p>