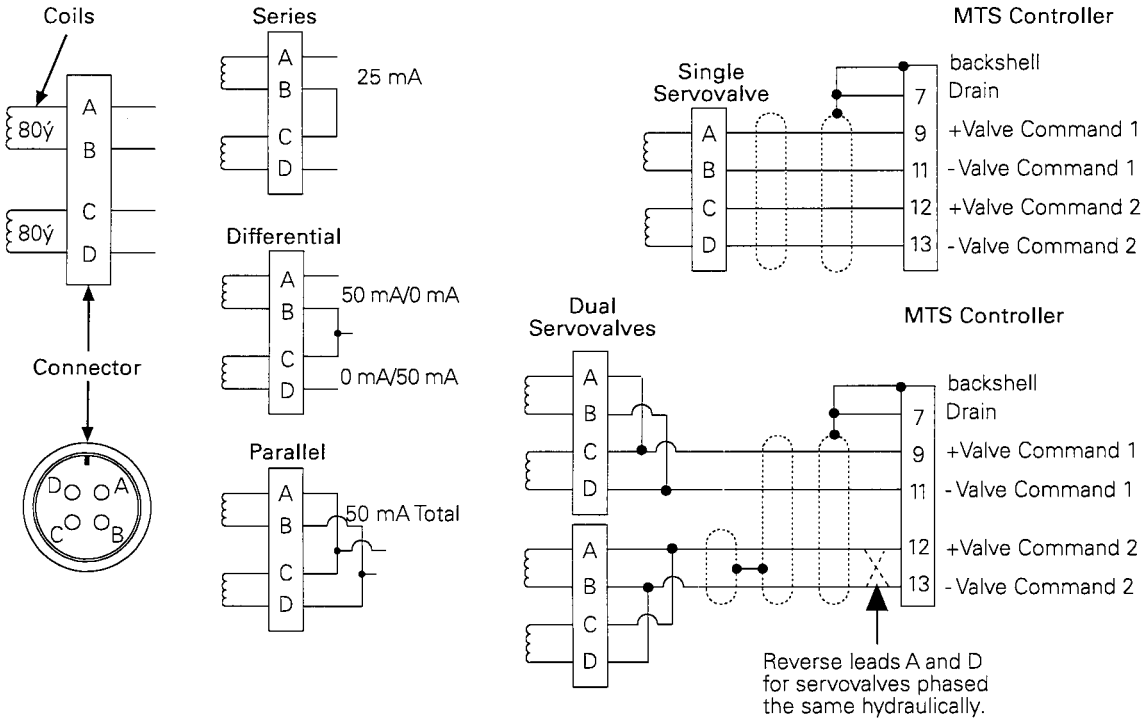
Cable Connections

The following figure shows the connector wiring for the servovalve. The correct wiring configuration is determined by the requirements of the device used to control the servovalve. See the appropriate controller manual for information on servovalve connections. Common MTS cables include:

- For a single 252 servovalve, part number 397006-xx
- For dual 252 servovalves, part number 397007-xx



Wiring Diagrams

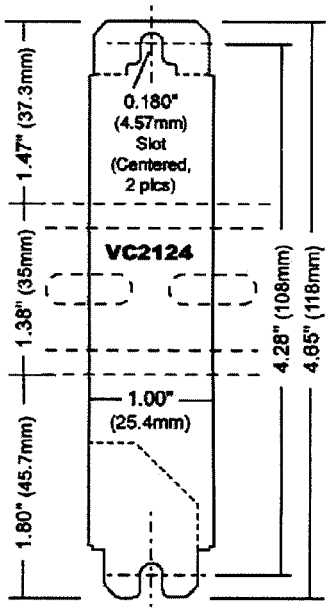
Wiring

Terminal Block		
Pin	**Label**	**Function**
1	In 0	±10V Input
2	Cmn	Common
3	Out 0	Current Out
4	In 1	±10V Input
5	Cmn	Common
6	Out 1	Current Out
7	24Vdc	24Vdc Power Supply
8	PS Ret	Power Supply Return

Note: Pins 2 and 5 are electrically the same.

Mounting Dimensions

Mount vertically with 3 inches clearance above and below for airflow.
Drawing is not a 1:1 scale.



Ordering Information

Part Number: VC2124 – Includes unpluggable terminal block

Company Profile

Delta Computer Systems, Inc. manufactures motion controllers, color sensors, and other industrial controls providing high-performance automation solutions to a wide range of industries.

Output Characteristics

The minimum output drive voltage and maximum load resistance is dependent on output current.

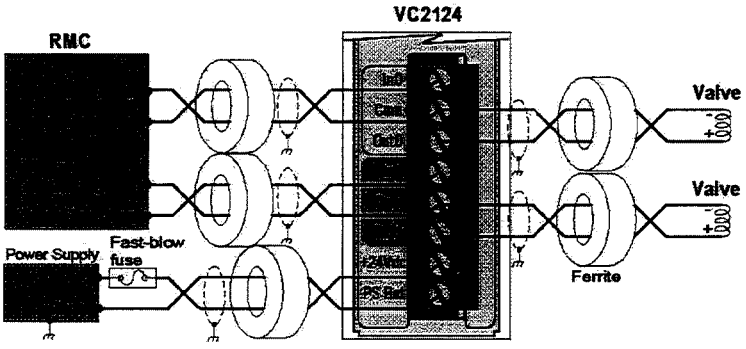
Minimum Output Voltage and Maximum Load Resistance			
Output Current	**V_{out}**		**Maximum Load**
(mA)	**Typical (V)**	**Minimum (V)**	**Resistance (Ω)**
10	11.0	10.4	1040
20	10.8	10.1	505
30	10.5	9.9	330
40	10.3	9.6	240
50	10.0	9.3	186
60	9.7	9.1	152
70	9.5	8.0	126
80	9.2	8.5	106
90	9.0	8.3	92
100	8.7	8.0	80

The VC2124 can drive a short circuit to common—the current is internally limited. The output amplifier will shut down under severe overload (such as driving a short to a power supply).

Minimum load resistance is dictated by ambient temperature and output current (average of absolute value over 30 seconds).

Ambient Temperature and Minimum Load Resistance		
Average Current	**Min Load at**	**Min Load at**
(mA)	**60°C (Ω)**	**50°C (Ω)**
90	36	12
80	29	0
70	16	0
60	0	0

Sample Wiring Diagram



Fuse 24Vdc input with 5A maximum, UL-listed, fast-blow fuse. One fuse suffices for up to 10 VC2124s. For maximum protection, use one 500mA fuse per VC2124.

For noise immunity, use twisted, shielded pairs for all connections (twisted pair with overall shield is acceptable). For best noise immunity, keep wires from the RMC to the VC2124 as short as possible and less than 98ft (30m), and place ferrites on all cables as close to the VC2124 as possible. Sample ferrite part numbers from Steward: 28A2029-0A0 or 0A2, 28A5131-0A2, 28A0593-0A2, 28A0807-0A2, 28A3851-0A2, 28A2024-0A0 or 0A2.