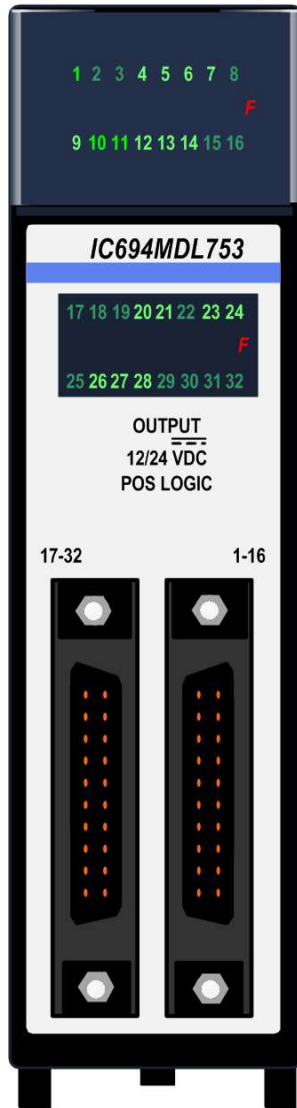


7.13 Output Module, 12/24 Vdc, 0.5 A Positive Logic, 32-Point: IC694MDL753

Figure 217: IC694MDL753



The **12/24 Vdc 0.5 A Positive Logic Output** module, IC694MDL753, provides thirty-two discrete outputs in four isolated groups of eight. Each group has its own common. The outputs are positive logic or sourcing type outputs; they switch the loads on the positive side of the power supply, and supply current to the load. The outputs can switch user loads over the range of +12 to +24 Vdc (+20%, -15%) and can source a maximum current of 0.5 A per point. There are two pins on the I/O connectors for each group common. Each pin has a current handling capacity of 3 A. It is recommended that connections be made to both pins when connecting the common; however, it is required for high-current applications (between 3 and 4 Amps).

Each group can be used to drive different loads. For example, three groups might drive 24 Vdc loads, while the fourth was reserved for driving 12 Vdc loads.

Power to provide current to the loads must be provided by the user. Module also draws a minimum amount of power from the user supply to provide gate drive to the output devices.

Backplane isolation between the field-side and logic side is provided by optocouplers on Module.

All 32 outputs are forced OFF when the CPU is stopped. No special fault or alarm diagnostics are reported. Individual numbered LEDs show the ON/OFF status of each output.

This module can be installed in any I/O slot in an RX3i system.

Module supports insertion into and removal from an RX3i Universal Backplane which is under power. Refer to Section 2.6.4, *Hot Insertion and Removal*.

7.13.1 Specifications: MDL753

MDL753	Specifications
Rated Voltage	12 through 24 Vdc, positive logic
Output Voltage Range	10.2 to 28.8 Vdc
Outputs per Module	32 (four groups of eight outputs each)
Isolation: Field to Backplane (optical) and to Frame Ground Group to Group	250 Vac continuous; 1500 Vac for 1 minute 50 Vac continuous; 500 Vac for 1 minute
Output Current	0.5 A per point with 4 A maximum per group and 3 A maximum per group common pin
Power Consumption	260 mA (maximum) from 5 Vdc bus on backplane; (13 mA + 3 mA/point ON + 4.7 mA/LED) 16.5 mA (maximum) per group from user supply at 24 Vdc and all eight outputs in group ON 9.6 mA (maximum) per group from user supply at 12 Vdc and all eight outputs in group ON
Output Characteristics Inrush Current On-state Voltage Drop Off-state Leakage Current On Response Time Off Response Time	5.4 A for 10 ms 0.3 Vdc 0.1 mA maximum 0.5 ms maximum 0.5 ms maximum

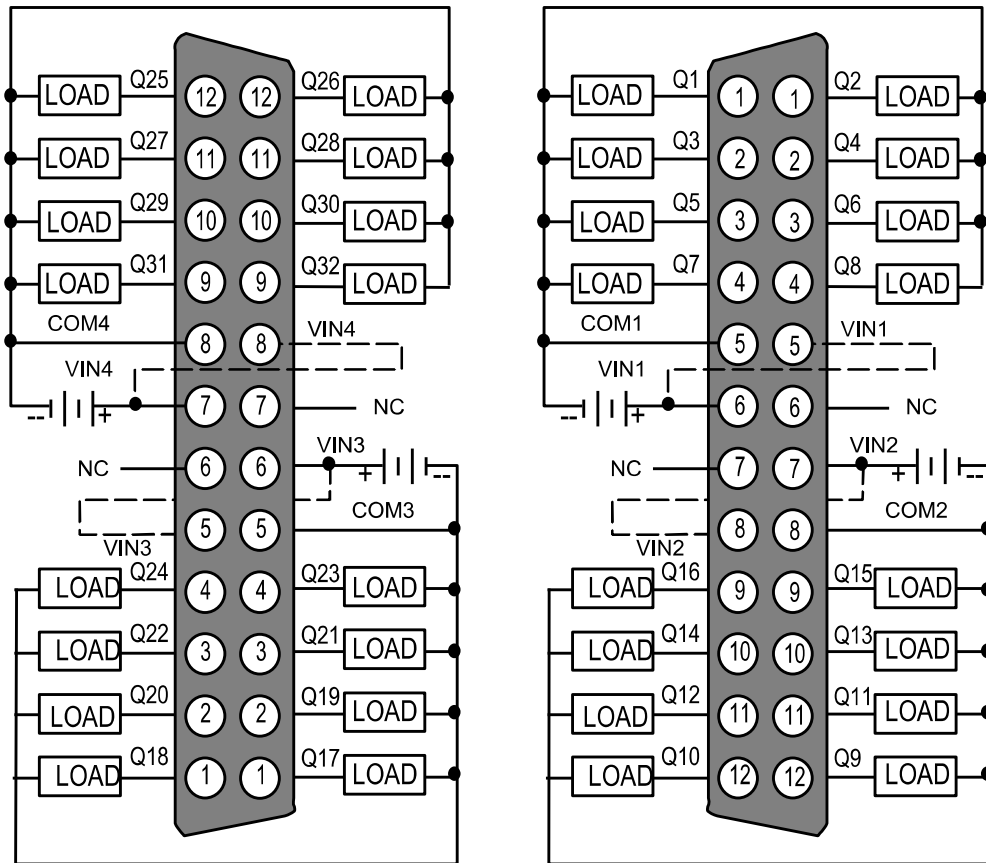
For product standards and general specifications, refer to Appendix A: Product Certifications and Installation Guidelines for Conformance.

7.13.2 Field Wiring: MDL753

Connections to the output circuits are made from the load devices to two male 24-pin D-connectors (Fujitsu FCN-365P024-AU) on the front of Module. The connectors on this module can be wired directly to field devices using a cable having a mating female connector on one end and stripped and tinned wires on the other end. You can purchase a pair of pre-wired cables, catalog numbers IC693CBL327 and IC693CBL328 or build cables. Refer to Chapter 17 of this manual for more information.

Connections can also be made a pair of cables with connectors on each end. These cables connect Module with DIN-rail mounted terminal blocks as described in Chapter 17.

Figure 218: Field Wiring Pinouts MDL753



If the total current is greater than 3 Amps for a group, use both V_{IN} pins for the group by adding a second wire (shown by dashed lines above).