## 5 TO 12 VDC OUTPUT (32 CIRCUITS)
## IC630MDL354A

The 5-12 VDC Output module provides 32 circuits, each capable of controlling user supplied discrete (ON/OFF) loads. The 32 circuits are provided referenced to a 5 to 12 Vdc power source that must be supplied by the user. Typical loads include TTL or CMOS circuitry. The circuits are arranged on the module in two groups of 16 circuits. Each of the 16 circuit groups is connected to user loads through an I/O interface cable. Two cables are required for a module. Each cable has a 40-pin connector on one end which mates with a corresponding connector on the faceplate.

When installed in an I/O slot, a 32 point I/O module uses 32 consecutive I/O references, i.e. the 16 references assigned to that slot and the next 16 references. A 32 point I/O module in slot 1 would use references 00-37. In this case, an I/O module installed in slot 2 would have a starting reference number of 40. If an 8-slot base was filled with 32 point I/O modules, that base would contain 256 I/O points (references 000-377, if first base unit).

Initial shipments of this module will include two connectors requiring user wiring. Eventually, a 10 foot (3m) I/O interface preassembled cable, with a connector wired on one end, will be available. Two of these cables will be required per module.

**NOTE**

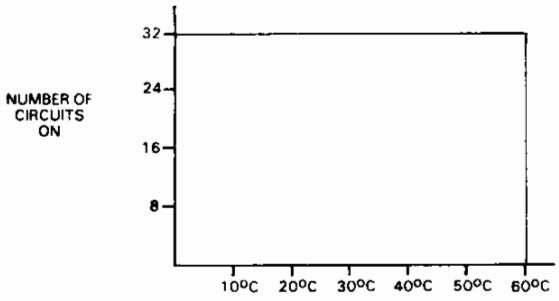
The primary function of this module is intended to be as a TTL or CMOS logic interface.

A power source from 5 to 12 Vdc can be used for this module. Specifications for 5 and 12 Vdc power sources for each of the 32 circuits are as follows.

| | 5 VDC | 12 VDC |
|---|---|---|
| External Power Voltage | 5 Vdc, ± 5% | 12 Vdc, ± 10% |
| Ripple | <3% rms, maximum | <3% rms, maximum |
| Current | 160 mA, maximum (Excluding loads) | 400 mA, maximum (Excluding loads) |
| ON State | 0.15 mA @ 3.5 Vdc | 2.5 mA @ 6 Vdc |
| OFF State | 16 mA @ 0.4 Vdc | 2.0 mA @ 0.4 Vdc |
| OFF delay | 0.1 ms | 0.1 ms |
| Input Signal | 0.1 ms | 0.1 ms |

Internal Power Consumption 5 Vdc @ 160 mA (Supplied by Series Three power supply)

Figure 6.6 provides user wiring information for the 5 to 12 Vdc Output modules.




I/O POINTS VS. TEMPERATURE CHART

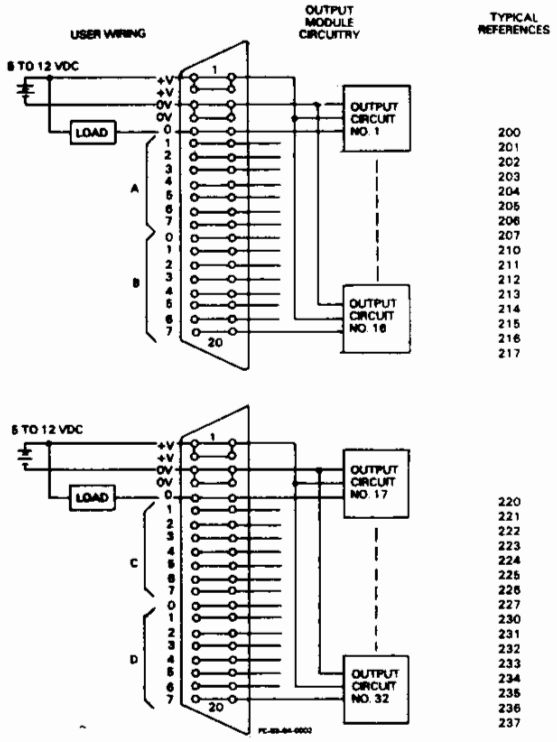



Figure 6.6
5 TO 12 VDC OUTPUT USER CONNECTIONS