5 TO 12 VDC INPUT (32 CIRCUITS)
IC630MDL303A

The 5-12 VDC Input module provides 32 circuits, each designed to receive a single discrete (ON/OFF) signal from user supplied devices. Typical input devices include TTL, and CMOS circuitry. An external power source in the range of 5 to 12 Vdc must be provided by the user for sensing the state of the inputs. All 32 Inputs are powered from a single source. User devices are connected to the inputs through two 40-pin connectors mounted 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 and stripped, tinned wires on the other end, will be available. Two of these cables will be required per module.

NOTE

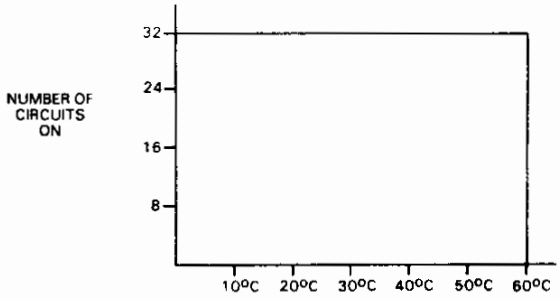
The primary function of this module is intended to be as a TTL or CMOS logic interface.

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	130 mA, maximum	400 mA, maximum
Input Current ON	2-4 mA	2-13 mA
Input Current OFF	0.3 mA, maximum	0.3 mA, maximum
Input Voltage ON	0.75 Vdc, maximum	6.8 Vdc, maximum
Input Voltage OFF	4.25 Vdc, minimum	12.2 Vdc, minimum
ON delay	1-5 ms	1-5 ms
OFF delay	1.5-6 ms	1.5 - 6 ms
Input Signal	> 2 mA sink current and < .75 Vdc	>2 mA sink current and < 6.8 Vdc

Internal Power Consumption 5 Vdc @ 50 mA (Supplied by Series Three power supply).

Figure 6.5 provides user wiring information for the 5 to 12 Vdc Input module.



I/O POINTS VS. TEMPERATURE CHART

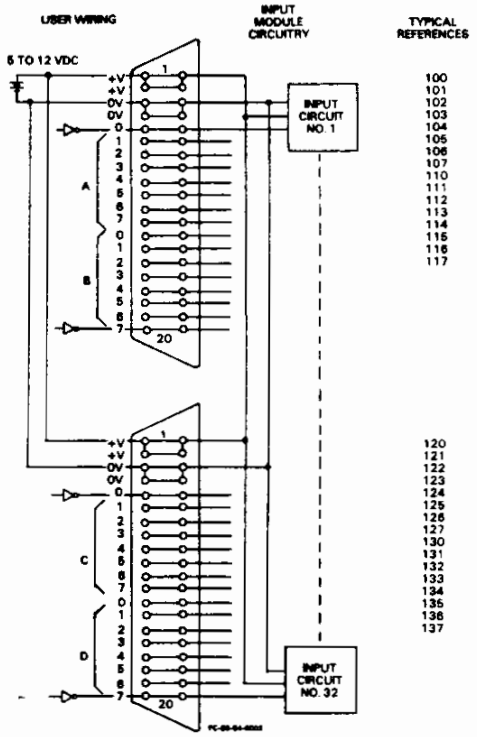


Figure 6.5
5 TO 12 VDC INPUT USER CONNECTIONS