

GEK-90842

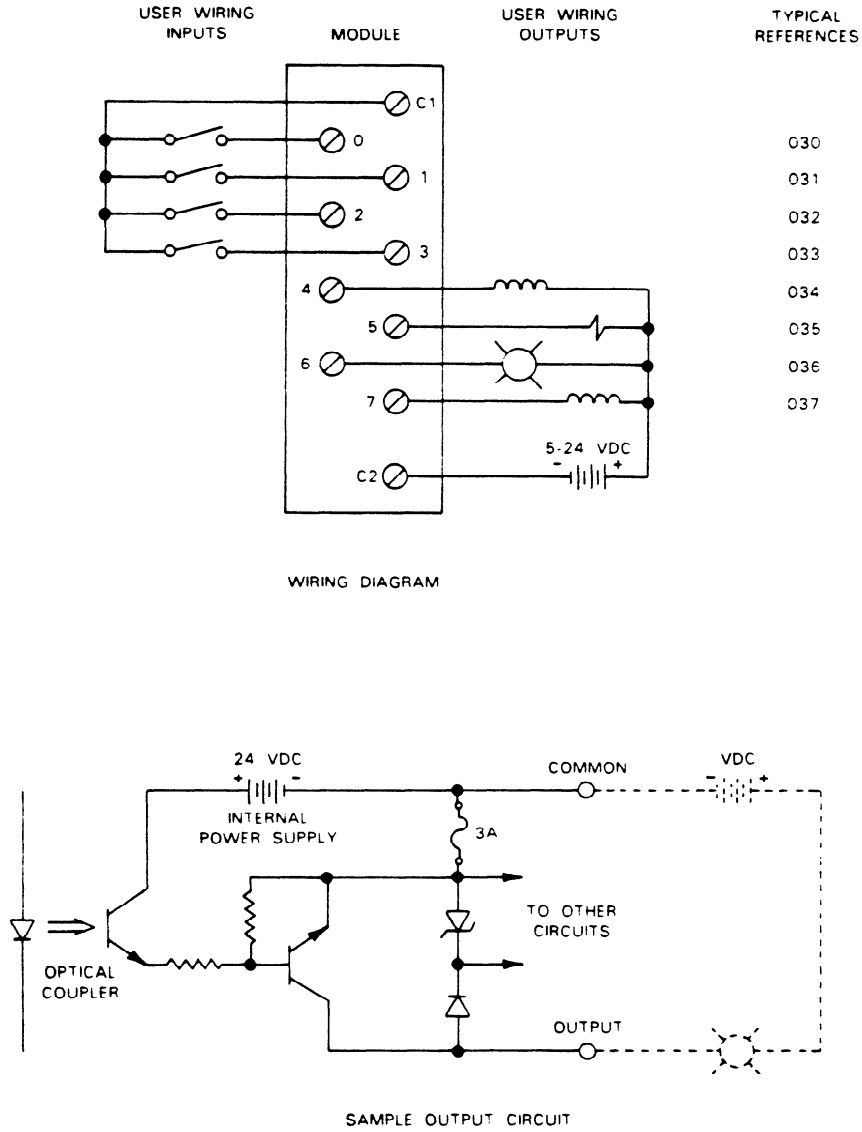
**24 V dc Input/Output (4 In/4 Out)  
IC610MDL103**

This module provides a dual function since it provides 4 input circuits each designed to receive a single discrete (ON/OFF) signal from user supplied devices and 4 output circuits each capable of controlling user supplied discrete (ON/OFF) loads. Typical input devices include limit switches, pushbuttons, selector switches, and relay contacts. Typical loads include relay coils, motor starters, solenoid valves, and indicator lights.

24 V dc power to sense the state of the inputs is provided by the rack power supply. The 4 output circuits are referenced, through their respective loads, to a single DC power source. The ON/OFF state of each input and output circuit is indicated by an LED. Figure 6.36 provides wiring information for this module. Following are specifications for each of the 4 input and 4 output circuits:

<b>INPUT CIRCUITS</b>	
<b>Input Points</b>	4
<b>Maximum Voltage (Open Circuit)</b>	36 V dc
<b>Input Current</b>	18 mA
<b>ON Level</b>	0-3 V dc
<b>OFF Level</b>	18-36 V dc
<b>OFF to ON Response</b>	4-15 ms
<b>ON to OFF Response</b>	4-15 ms
<b>Maximum OFF Leakage</b>	3 mA
<b>Minimum ON Current</b>	7 mA
<b>OUTPUT CIRCUITS</b>	
<b>Output Points</b>	4
<b>Operating Voltage</b>	5-24 V dc
<b>Peak Voltage</b>	45 V dc
<b>Maximum Current</b>	0.5 amp
<b>Maximum Leakage Current</b>	0.1 mA @ 40 V dc
<b>ON Voltage Drop (Typical)</b>	0.8 V dc @ 0.5 amp 0.65 V dc @ .1 amp
<b>ON Voltage Drop (Max)</b>	1.5 V dc @ 0.5 amp
<b>OFF to ON Response</b>	0.1 ms
<b>ON to OFF Response</b>	0.1 ms
<b>Fuse (Internal)</b>	3 amp (In Output common line)
<b>Internal Power Consumption</b>	20 mA @ 9 V dc
<b>Inputs</b>	14 mA for each On Circuit
<b>Outputs</b>	3 mA for each On Circuit
<b>Units of Load</b>	2 units @ 9 V dc
<b>7 units @ 24 V dc</b>	
<b>Weight</b>	4.6 oz (130 g)

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**Figure 6-36. Wiring for 24 V dc Inputs/Outputs**