

GEK-90842

Relay Output (8 Circuits) IC610MDL180

This module provides 8 circuits each capable of controlling user supplied discrete (ON/OFF) loads. Typical loads include relay coils, motor starters, solenoid valves, and indicator lights. Since this module is not designed for a specific current type such as 115 V ac or 24 V dc, it can be used with a wide variety of loads and signal types. The 8 circuits are divided into two groups of 4 circuits each. Each group can be supplied from a separate power source. Power to operate the field devices must also be supplied by the user. Following are specifications for each of the eight circuits:

Outputs	8
Operating Voltage	5 to 265 V ac/dc
AC Frequency	47-63 Hz
Maximum Current*	4 amp (resistive)
Maximum Leakage Current (Across Contacts)	1 mA
Smallest Recommended Load	5 mA
Maximum Inrush	5 amps
OFF to ON Response	5 ms
ON to OFF Response	5 ms
Circuit Indicator	Logic Side
Fuses (Internal)	(2) 10 amp (Replaceable) (one for each group of 4)
Internal Power Consumption	45 mA for each ON Circuit @ 9 V dc
Units of Load	34 units @ 9 V dc
Weight	7 oz (200 g)

*Since non-solid state devices are used as the power switching devices, the following limitations must be observed for reliable operation:

Table 6-2. Maximum Current vs Load Type for Relay Outputs

OPERATING VOLTAGE	MAXIMUM CURRENT FOR LOAD TYPE			TYPICAL LIFE (OPERATIONS)
	RESISTIVE	LAMP	SOLENOID	
220 V ac	4.0 Amp	0.5 Amp	0.5 Amp	100,000
220 V ac		.05 Amp	.05 Amp	800,000
110 V ac	4.0 Amp	0.5 Amp	0.5 Amp	150,000
110 V ac		0.1 Amp	0.1 Amp	650,000
24 V dc	5.0 Amp	0.5 Amp	0.5 Amp	100,000
50 V dc	1.0 Amp	0.1 Amp	0.1 Amp	100,000
100 V dc	0.5 Amp	.05 Amp	.05 Amp	100,000
250 V dc	0.3 Amp	.03 Amp	.03 Amp	100,000

NOTE

Lamp loads are defined as a X10 inrush with a power factor (PF) of 1.00 and when turned OFF represent a PF of 1.00. Solenoids are defined with a X10 inrush, a PF of 0.65, and when turned OFF represent a PF of 0.35.

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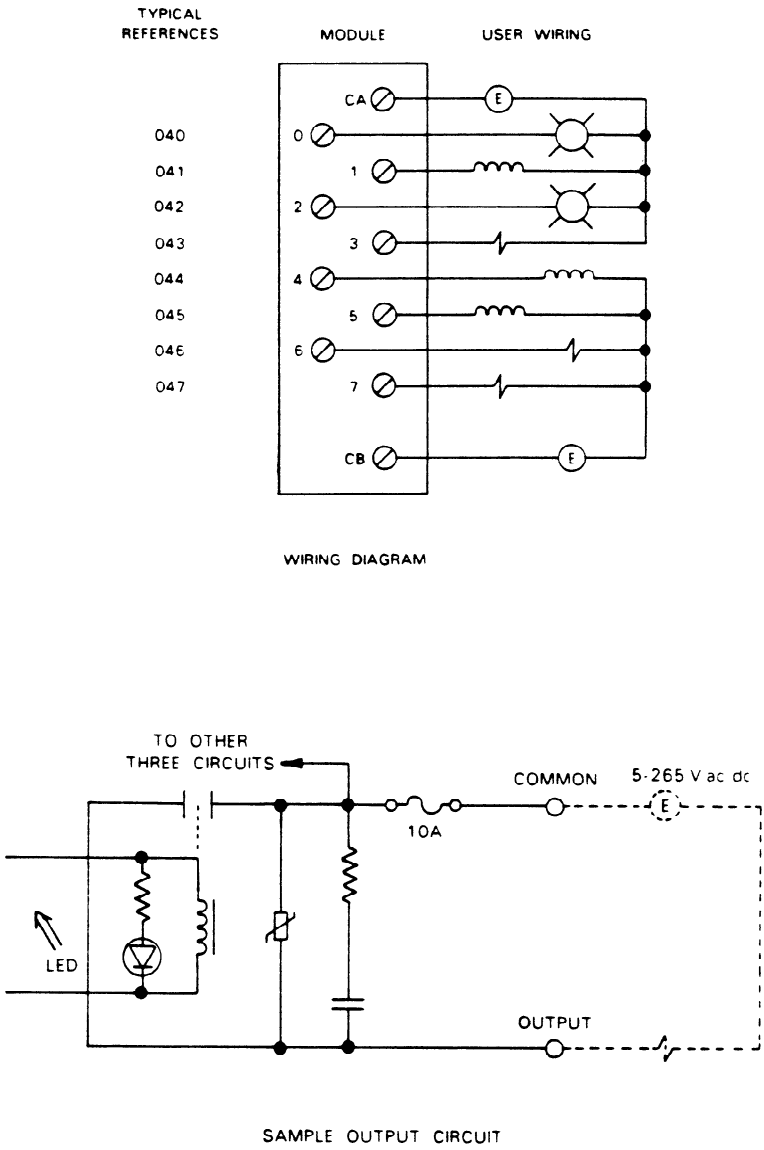


Figure 6-34. Wiring for 8 Circuit Relay Outputs