24 V dc 2 Amp Sink/Source Output
IC610MDL154

This module provides 4 isolated, fused 24 V dc sink or source output circuits each capable of controlling user supplied discrete (ON/OFF) loads. Each circuit is rated at 2 amps continuous current. Outputs can be connected in parallel to increase output current capacity. Types of loads that can be controlled by this module would include motor starters, relay coils solenoid valves, and indicator lights. All 4 circuits can be referenced to a separate DC source of power. The circuits on this module can be used as either source outputs or sink outputs, depending on how the load is wired in relation to the load power supply.

Field connections are made to screw terminals on a terminal block mounted on the faceplate. Each terminal will accept up to one No. 12 AWG wire or two No. 14 AWG wires. The ON/OFF state of each circuit is indicated by a corresponding LED on the logic side. This module will consume 8 consecutive discrete references. The 4 references not used as "real world" outputs can be used as internal coils in your program. Following are specifications for each of the four circuits.

Output Points	4
Operating Voltage	5 to 24 V dc
Peak Voltage	45 V dc
Maximum Current*	2 amps Continuous 8 amps Maximum Peak
Maximum Leakage Current	< .4 mA @ 40 V dc
ON Voltage Drop	1 V dc @ 6 amps .6 V dc @ 4 amps .3 V dc @ 2 amps .15 V dc @ 1 amp
OFF to ON Response	.1 ms
ON to OFF Response	.1 ms
Circuit Indicator	Logic Side
Fuses, Internal	5 amp (1 for each circuit) Replaceable
Internal Power Consumed	12 mA @ 9 V dc 30 mA @ 24 V dc
Units of Load	2 units @ 9 V dc 3 units @ 24 V dc

Lamp load should be .8 amps or less.
*Load current (max.) is dependent on ambient temperature as shown below.

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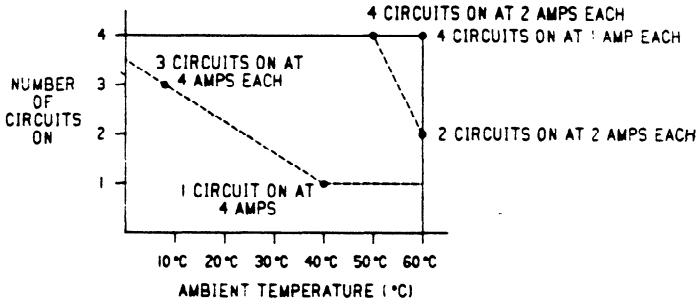

Figure 6-28. I/O Points vs Temperature

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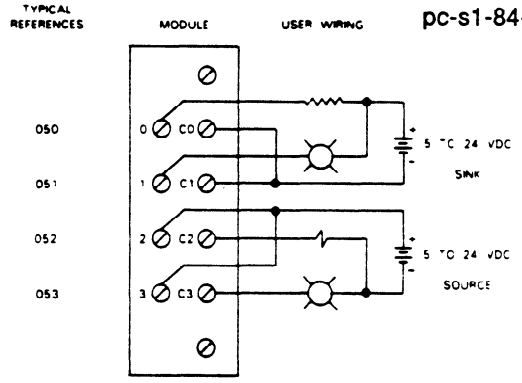

Although not shown as such, the 4 circuits are isolated from each other and can be connected to separate power sources.

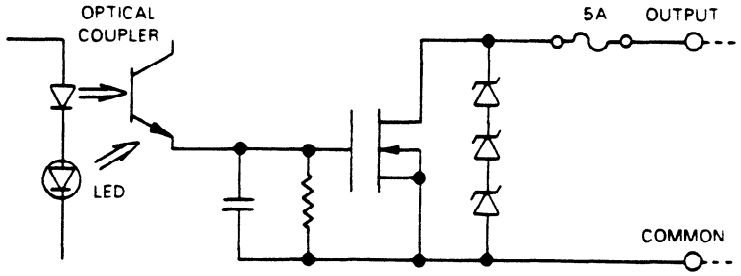

Figure 6-29. Wiring of 24 V dc 2 Amp Sink/Source Output