

**24 VDC Output Negative Logic, 2 Amp - 16 Circuits
IC655MDL551**

This module provides 16 circuits for controlling user output loads. The output switching capacity of this module is two amps. 16 LEDs on the front of the module provide a dual function. They provide a visual indication of the status of each output circuit, with each LED normally reflecting the ON or OFF state of the corresponding circuit. When commanded through programming, they indicate the starting I/O address for the module. Connections to each circuit are made to the removable terminal block on the front of the module. The output circuits are divided into two groups. The groups are labeled A and B, with the terminals in each group labeled 1 to 8. Each group has a single common connection, labeled C, for the eight circuits in the group. The user must supply a 24 VDC source of power, which provides power for both the load and the output circuit. Both groups can be powered from a single power source or each group can be powered from a separate source.

Table 17. Specifications for 24 VDC Output, Negative Logic, 2 Amp, 16 Circuits

Output Circuit Type	N-MOS FET, open drain
Number of Circuits	16
Internal Circuit Grouping	Two groups, eight circuits per group.
Operating Voltage	4.5 to 26.4 VDC
Peak Voltage	40.0 VDC
Maximum Operating Current	2.0 amps, 5 amps/group of 4; 10 amps/common, 20 amps/module
Maximum Leakage Current	0.1 mA at 40 VDC
ON Voltage Drop	0.5 VDC at 2 amps, 0.2 VDC at 1 amp
Smallest Recommended Load	0.2 mA at 5 VDC
Maximum Inrush current	6 amps for 100 ms, 12 amps for 10 ms
OFF to ON Response	0.1 ms
ON to OFF Response	0.1 ms
Status Indicator Location	Logic side
Fuses Rating and Type, Internal	8 amps (1 for each group of four circuits), fast blow. <i>Total current should not exceed 5 amps per group of 4 outputs.</i>
Internal Power Consumption, (5 VDC)	Total; 150 mA (typ), 170 mA (max) Per On Point; 9 mA
External Power Supply Requirements	Voltage: 24 VDC, ±10% Current: 35 mA maximum at 26.4 VDC

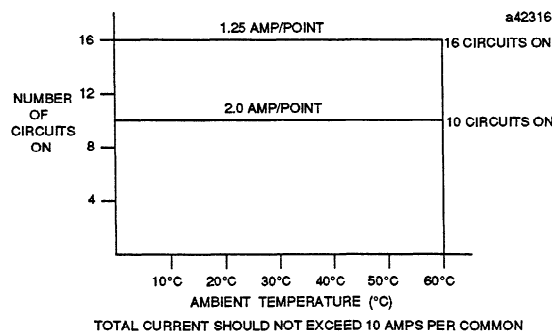


Figure 27. Output Points vs. Temperature for IC655MDL551

GFK-0123

Wiring Information - IC655MDL551

The following figure provides the information required for connecting user supplied loads and power source to this module.

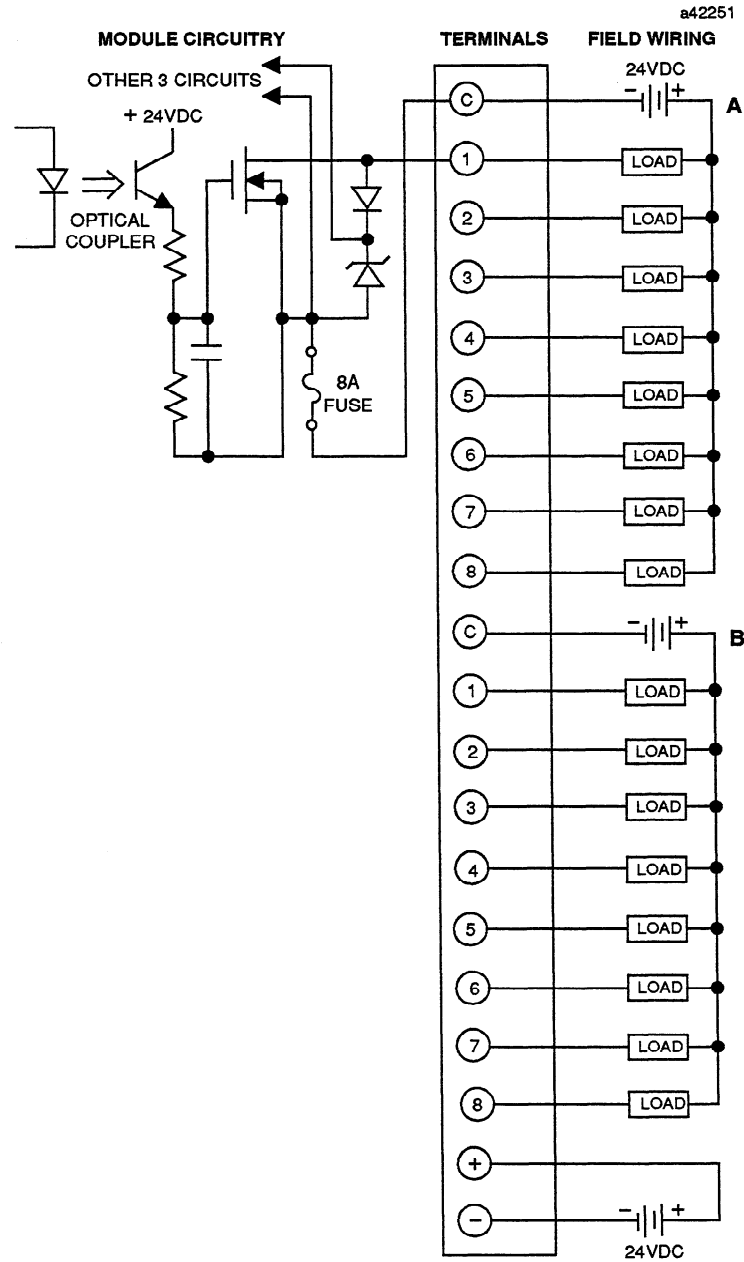


Figure 28. Field Wiring and Typical Circuit for IC655MDL551