

GE Fanuc IC694MDL930

<http://www.pdfsupply.com/automation/ge-fanuc/rx3i-pacsystem/IC694MDL930>

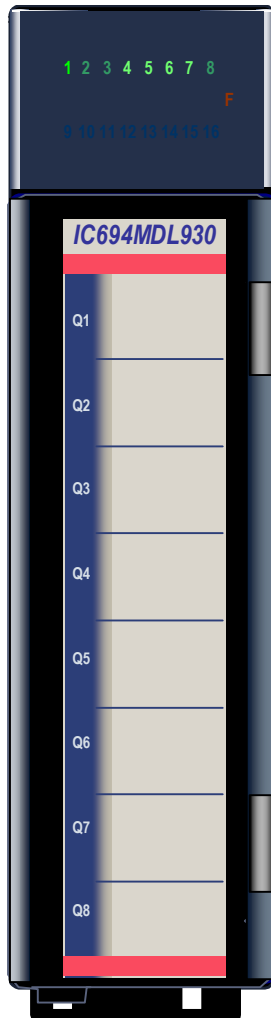
Rx3i PacSystem

Output module, relay 4 amp, 8 point isolated per point. IC694M IC-694MD IC694MDL

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Output Module, Isolated Relay, N.O., 4 Amp, 8 Point: IC694MDL930



The **4 Amp Isolated Relay Output** module, IC694MDL930, provides eight normally–open relay circuits for controlling output loads. The output switching capacity of each circuit is 4 Amps. Each output point is isolated from the other points, and each point has a separate common power output terminal. The relay outputs can control a wide range of output devices, such as: motor starters, solenoids, and indicators. The user must supply the AC or DC power to operate the field devices connected to this module.

Individual numbered LEDs show the ON/OFF status of each output point. There are no fuses on this module. The red bands on the label show that MDL930 is a high-voltage module.

This module can be installed in any I/O slot in an RX3i system.

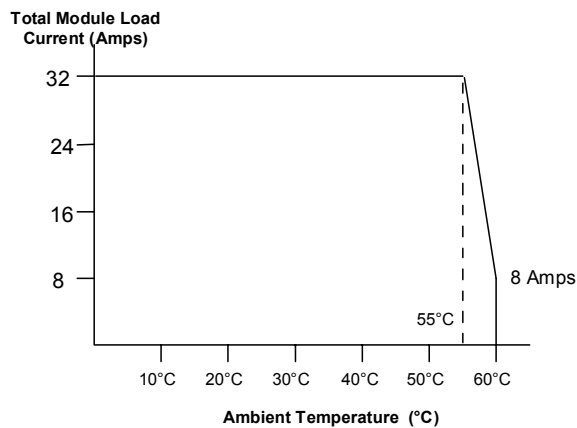
Specifications: MDL930

| | |
|---|--|
| Rated Voltage | 24 volts DC, 120/240 volts AC (nominal - see the following table for exceptions) |
| Operating Voltage | 5 to 30 volts DC 5 to 250 volts AC, 50/60 Hz |
| Outputs per Module | 8 isolated outputs |
| Isolation: | |
| Field to Backplane and to Frame Ground | 250 VAC continuous; 1500 VAC for 1 minute |
| Point to Point | 250 VAC continuous; 1500 VAC for 1 minute |
| Maximum Load | 4 Amps resistive maximum per output 2 Amps pilot duty per output 20 Amps maximum per module for UL installations Maximum Load depends on the ambient temperature as shown below |
| Minimum Load | 10mA |
| Maximum Inrush | 5 Amps |
| On Response Time | 15ms maximum* |
| Off Response Time | 15ms maximum* |
| Power Consumption | 6mA (all outputs on) from 5 volt bus on backplane 70mA (all outputs on) from relay 24V bus on backplane |

Refer to Appendix A for product standards and general specifications.

* When this module is used with DC power supply IC695PSD040 or PSD140, special precautions should be taken because dropouts in the source voltage will be seen by this module and may cause relay dropouts.

Load Current vs. Temperature



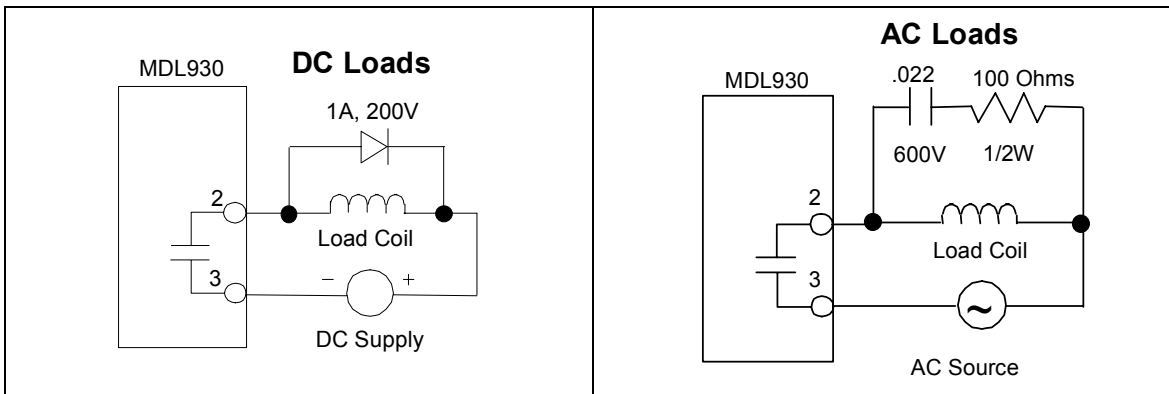
Load Current Limitations

| Operating Voltage | Maximum Current for Load Type | | Typical Contact Life (Number of Operations) |
|-------------------|-------------------------------|--------------------|---|
| | Resistive | Lamp or Solenoid * | |
| 24 to 120 VAC | 4 Amps | 2 Amps | 150,000 |
| 24 to 120 VAC | 1 Amp | 0.5 Amp | 500,000 |
| 24 to 120 VAC | 0.1 Amp | 0.05 Amp | 1,000,000 |
| 240 VAC | 4 Amps | 2 Amps | 50,000 |
| 240 VAC | 0.1 Amp | 0.05 Amp | 500,000 |
| 240 VAC | 1 Amp | 0.5 Amp | 200,000 |
| 24 VDC | – | 3 Amps | 50,000 |
| 24 VDC | 4 Amps | 2 Amps | 100,000 |
| 24 VDC | 1 Amp | 0.5 Amp | 500,000 |
| 24 VDC | 0.1 Amp | 0.05 Amp | 1,000,000 |
| 125 VDC | 0.2 Amp | 0.1 Amp | 300,000 |

* Assumes a 7ms time constant

Relay contact life, when switching inductive loads, will approach resistive load contact life if suppression circuits are used. Examples of typical suppression circuits for AC and DC loads are shown below. The 1A, 200V diode shown in the DC load typical suppression example is an industry standard 1N4935. The resistor and capacitor shown for AC load suppression are standard components, available from most electronics distributors.

Load Suppression Examples for Output Module IC694MDL930



Field Wiring: MDL930

| Terminal | Connection |
|----------|---------------|
| 1 | No connection |
| 2 | Output 1-1 |
| 3 | Output 1-2 |
| 4 | Output 2-1 |
| 5 | Output 2-2 |
| 6 | Output 3-1 |
| 7 | Output 3-2 |
| 8 | Output 4-1 |
| 9 | Output 4-2 |
| 10 | No connection |
| 11 | No connection |
| 12 | Output 5-1 |
| 13 | Output 5-2 |
| 14 | Output 6-1 |
| 15 | Output 6-2 |
| 16 | Output 7-1 |
| 17 | Output 7-2 |
| 18 | Output 8-1 |
| 19 | Output 8-2 |
| 20 | No connection |

Module Circuits Terminals Field Wiring

