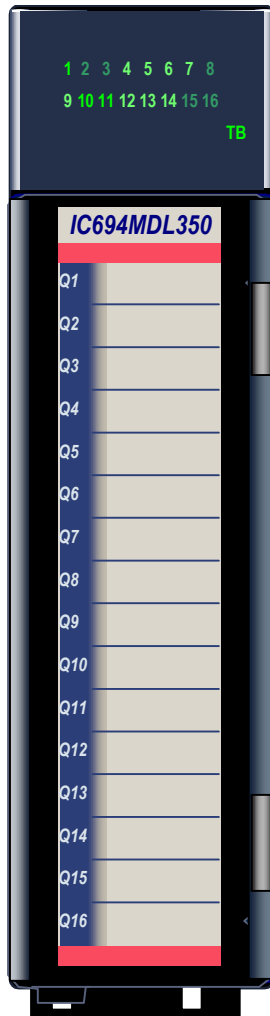# GE Fanuc IC694MDL350

Rx3i PacSystem

120/240 Vac Isolated Output, 2 Amp (16 Points). IC694M IC694MD IC694MDL

919-535-3180
sales@pdfsupply.com

Output Module, 120VAC 16 Point Isolated, IC694MDL350

```
1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16
                    TB

IC694MDL350

Q1
Q2
Q3
Q4
Q5
Q6
Q7
Q8
Q9
Q10
Q11
Q12
Q13
Q14
Q15
Q16
```

The **120/240VAC 16-Point Isolated Output** module, IC694MDL350, provides 16 individually-isolated output points. A high level of noise immunity minimizes the need for external snubbers to protect the outputs against transient electrical noise on the power line. The outputs can control a wide range of inductive and incandescent loads. Power to operate the output loads must be provided with an external AC power supply.

A DIP switch on back of the module is used to select the outputs' default mode: Force Off or Hold Last State. The module must be removed from the backplane to set this switch.

This module can be used with a Box-style (IC694TBB032), Extended Box-style (IC694TBB132), Spring-style (IC694TBS032), or Extended Spring-style (IC694TBS132) Terminal Block. Extended terminal blocks provide the extra shroud depth typically needed for field wiring to AC devices. See chapter 15 for more information on Terminal Blocks. Terminal Blocks are ordered separately.

Individually-numbered LEDs show the ON/OFF status of each output point. The TB LED indicates presence of the removable Terminal Block. The TB LED is green when the Terminal Block is present or red when the Terminal Block is not present. The red bands on the door card indicate the MDL350 is a high-voltage module.

The IC694MDL350 module can be installed in any I/O slot in an RX3i system. It must be used with an RX3i CPU release 3.50 or greater. It cannot be used with a Series 90-30 PLC CPU.

Specifications: IC694MDL350

Rated Voltage	120/240 volts AC
Output Voltage Range	74 – 265VAC (47 to 63 Hz), 120/240VAC nominal
Outputs per Module	16 isolated
Isolation:	
Field to Logic Side	250 VAC continuous; 1500 VAC for 1 minute
Group to Group	250 VAC continuous; 1500 VAC for 1 minute
Power Consumption	315 mA (with all outputs ON) from 5 volt bus on backplane
Diagnostics	Field side terminal block status reported to RX3i CPU
Output Current **(Linear derating)**	Per Point 2A max. @ 30°C, 1A max. @ 60°C
	Per Module 5A max. @ 30°C, 4A max. @ 60°C
Output Characteristics	
Inrush Current	20 Amps maximum for one cycle
Minimum Load Current	10 mA per point
Output Voltage Drop	1.5 volts maximum
Output Leakage Current	2 mA maximum
On, Off Response Times	1/2 cycle maximum
Fuses	No internal fusing. Use of appropriate external fuses is recommended for short circuit protection.

Refer to Appendix A for product standards and general specifications.

Setting the Output Defaults

The DIP switch on back of the module selects the default operation for the module's outputs. The module must be removed from the backplane to set this switch. Note that there are two DIP switches on the module. Only the upper switch is used for this module.

Outputs Default DIP Switch
Closed (left) = Hold Last State
Open (right) = Force Off

Not Used
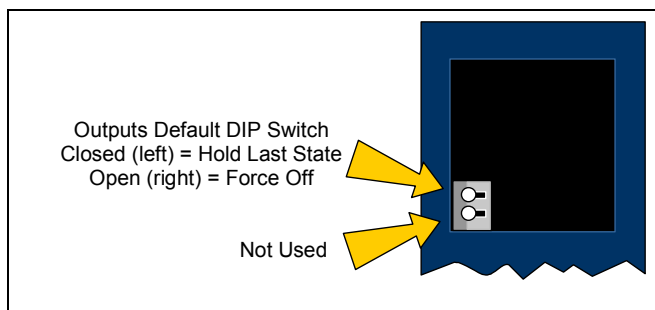
With the Outputs Default Mode switch in the right (open) position, the outputs will turn off whenever communication with the CPU is lost. When the switch is in the left position, the outputs will hold their last programmed value whenever communication with the CPU is lost.

Backplane power and power to the outputs must be present to Hold Last State. Otherwise, the module will default outputs regardless of the DIP switch setting.

The Outputs Default Mode selection made with the DIP switch must match the selection made for this feature in the module's software configuration. If the two do not match, a warning message is displayed in the fault table.

Field Wiring: MDL350

Connections	*Terminals*	*Terminals*	*Connections*
Output 1	1	19	Output 9
Output 1 Supply	2	20	Output 9 Supply
Output 2	3	21	Output 10
Output 2 Supply	4	22	Output 10 Supply
Output 3	5	23	Output 11
Output 3 Supply	6	24	Output 11 Supply
Output 4	7	25	Output 12
Output 4 Supply	8	26	Output 12 Supply
Output 5	9	27	Output 13
Output 5 Supply	10	28	Output 13 Supply
Output 6	11	29	Output 14
Output 6 Supply	12	30	Output 14 Supply
Output 7	13	31	Output 15
Output 7 Supply	14	32	Output 15 Supply
Output 8	15	33	Output 16
Output 8 Supply	16	34	Output 16 Supply
No connection	17	35	No connection
No connection	18	36	No connection

Field Wiring   **Terminals**   **Field Wiring**

Q1	1	19	Q9
N ~ H	2	20	H ~ N
Q2	3	21	Q10
N ~ H	4	22	H ~ N
Q3	5	23	Q11
N ~ H	6	24	H ~ N
Q4	7	25	Q12
N ~ H	8	26	H ~ N
Q5	9	27	Q13
N ~ H	10	28	H ~ N
Q6	11	29	Q14
N ~ H	12	30	H ~ N
Q7	13	31	Q15
N ~ H	14	32	H ~ N
Q8	15	33	Q16
N ~ H	16	34	H ~ N
NC	17	35	NC
NC	18	36	NC