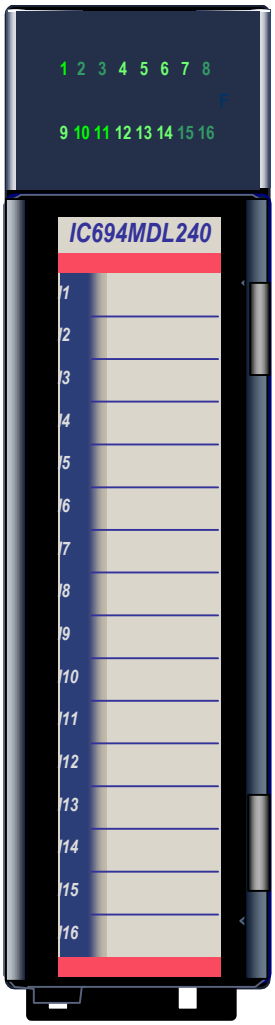
Input Module, 120 Volt AC, 16 Point: IC694MDL240



The ***120 volt AC Input*** module, IC694MDL240, provides 16 input points with one common power input terminal. The input circuits are reactive (resistor/capacitor) inputs. Current into an input point results in a logic 1 in the input status table (%I). Input characteristics are compatible with a wide range of input devices, such as pushbuttons, limit switches, and electronic proximity switches. Power to operate the field devices must be supplied by the user. This module requires an AC power source; *it cannot be used with a DC power source.*

Sixteen green LEDs indicate the ON/OFF status of points 1 through 16. The red bands on the label show that MDL240 is a high-voltage module.

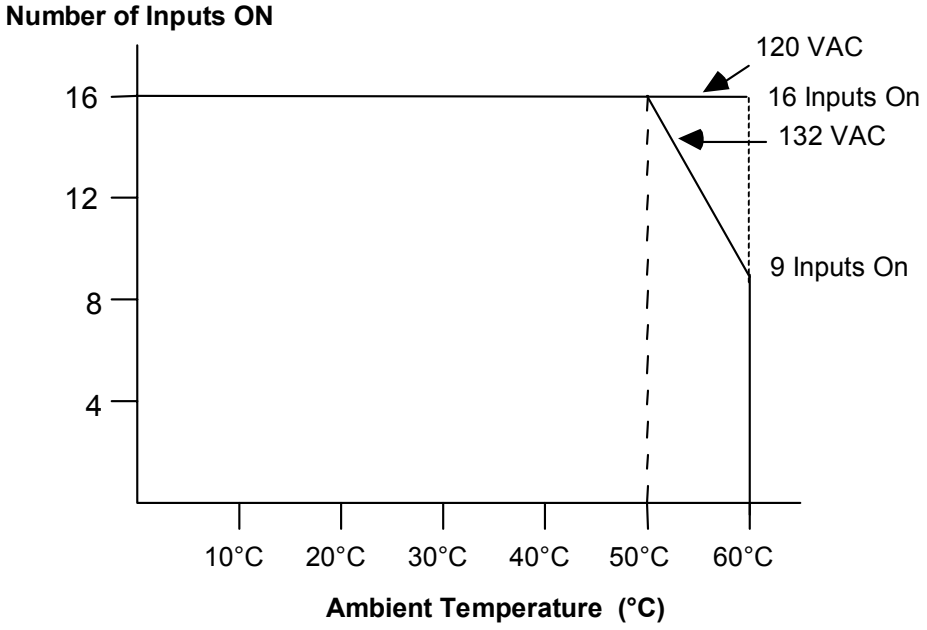
This module can be installed in any I/O slot in an RX3i system.

Specifications: MDL240

Rated Voltage	120 volts AC
Input Voltage Range	0 to 132 volts AC, 50/60 Hz
Inputs per Module	16 (one group with a single common) The maximum number of inputs on at the same time depends on the ambient temperature as shown below.
Isolation: Field to Backplane (optical) and to frame ground	250 VAC continuous; 1500 VAC for one minute
Input Current	12 mA (typical) at rated voltage
Input Characteristics:	
On–state Voltage	74 to 132 volts AC
Off–state Voltage	0 to 20 volts AC
On–state Current	6mA minimum
Off–state Current	2.2mA maximum
On response Time	30ms maximum
Off response Time	45ms maximum
Power Consumption	90mA (all inputs on) from 5 volt bus on backplane

Refer to Appendix A for product standards and general specifications.

Input Points vs. Temperature



Field Wiring: MDL240

Terminals	Connections
1	Input 1
2	Input 2
3	Input 3
4	Input 4
5	Input 5
6	Input 6
7	Input 7
8	Input 8
9	Input 9
10	Input 10
11	Input 11
12	Input 12
13	Input 13
14	Input 14
15	Input 15
16	Input 16
17	No connection
18	No connection
19	Inputs 1-16 Common (Return)
20	No connection