MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

GE VERSAMAX

IC200MDL640

16-POINT DC INPUT MODULE

Used with the applicable VersaMax discrete I/O configuration.

REFERENCE PACKAGE

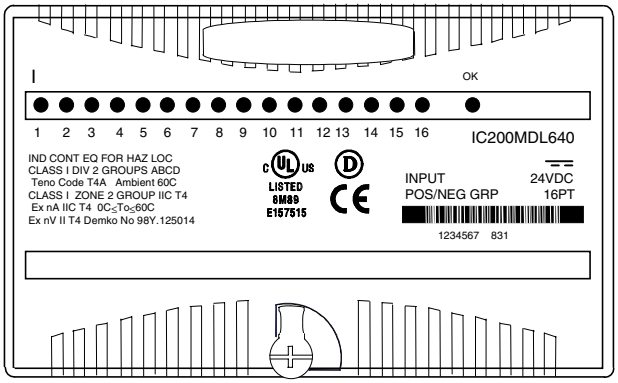
OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: GE official manufacturer documentation

IC200MDL640
Input Module, 24VDC Pos/Neg Logic 16 Points

Discrete input module IC200MDL640 provides two groups of 8 discrete inputs. Inputs in each group can be either positive logic inputs that receive current from input devices and return the current on the common, or negative-logic inputs that receive current from the common and return current to the input device. Input devices are connected between the input terminals and common terminals.



Note: Negative-logic functionality requires module version IC200MDL640C or higher.

Power for module operation comes from the backplane.

Intelligent processing for this module is performed by the CPU or NIU. The module provides 16 bits of discrete input data.

LED Indicators

Individual green LEDs indicate the on/off state of each input point.

The green OK LED is on when backplane power is present to the module.

Configuration Parameters

The module's basic input on/off response time is 0.5ms.

For some applications, it may be preferable to add additional filtering to compensate for conditions such as noise spikes or switch bounce. Input filter times of 0ms, 1.0ms, or 7.0ms are selectable via software configuration, for total response times of 0.5ms, 1.5ms, and 7.5ms respectively. The default is 1.0ms filter time (total response time is 1.5ms).

IC200MDL640
Input Module, 24VDC Pos/Neg Logic 16 Points

Module Specifications

Module Characteristics	
Points	16 inputs (2 groups of 8)
Module ID	FFFF8008
Isolation: User input to logic (optical) and to frame ground Group to Group Point to point	 250VAC continuous; 1500VAC for 1 minute 250VAC continuous; 1500VAC for 1 minute None
LED indicators	One LED per point shows individual point ON/OFF status OK LED indicates backplane power is present
Backplane current consumption	5V output: 25mA maximum
External power supply	None
Thermal derating	No derating
Configuration parameters	Input response times
Input Characteristics	
Input voltage	0 to +30VDC, +24VDC nominal
On state voltage Off state voltage	+15 to +30VDC 0 to +5.0VDC
On state current Off state current	2.0 to 5.5mA 0 to 0.5mA
On response time Off response time	0.5ms maximum
Configurable filter time	0ms, 1.0ms (default), or 7.0ms
Input impedance	10kOhms maximum

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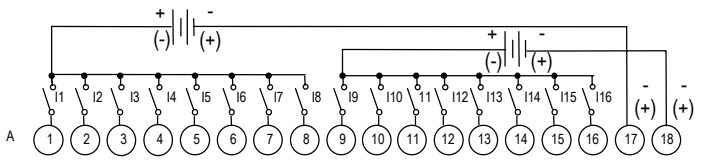
Field Wiring

Terminal	Connection	Terminal	Connection
A1	Input 1	B1	No connection
A2	Input 2	B2	No connection
A3	Input 3	B3	No connection
A4	Input 4	B4	No connection
A5	Input 5	B5	No connection
A6	Input 6	B6	No connection
A7	Input 7	B7	No connection
A8	Input 8	B8	No connection
A9	Input 9	B9	No connection
A10	Input 10	B10	No connection
A11	Input 11	B11	No connection
A12	Input 12	B12	No connection
A13	Input 13	B13	No connection
A14	Input 14	B14	No connection
A15	Input 15	B15	No connection
A16	Input 16	B16	No connection
A17	Inputs 1-8 Common	B17	No connection
A18	Inputs 9-16 Common	B18	No connection

The inputs form two groups of 8. Each group has a common connection. Each group may be wired for positive or negative logic inputs. Note: Negative-logic functionality requires version IC200MDL640C or higher. If additional bussed terminals are needed, the B terminals can be made available by using a shorting bar. The shorting bar has a maximum current-carrying capacity of 2 Amps per point. See chapter 2 for information about using the shorting bar.

Wiring Connections for Carriers with Two Rows of Terminals

IC200CHS002, 005
IC200CHS012, 015



Wiring Connections for Carriers with Three Rows of Terminals

IC200CHS001, 022, 025
IC200CHS011

