GE Versamax Series Service Manual

IC200MDL632

1. Description

The IC200MDL632 is a 16-Point discrete input module from the VersaMax I/O series formerly produced by GE Intelligent Platforms, now under Emerson Automation. This module has Sixteen (16) positive and negative logic isolated input channels that accept of 125 VDC nominal voltage at input voltage range of 0-150 VDC and user input current 1.7 mA, typical at 125 VDC and 2.2 mA,

2. Specifications

Specification	Value
Manufacturer	**GE Fanuc**
Series	**Versamax**
Manufacturer	**GE Intelligent Platforms (Former); Emerson Automation (Current)**
Part	**Number IC200MDL632**
Series	**VersaMax**
Product	**Type Input Module**
Part	**Number IC200MDL632**
Number	**of Inputs 16**
Product	**Description Discrete Input Module**
Isolated	**Inputs Yes**
No.	**of channels Sixteen (16)**
Nominal	**Voltage 125 Volts DC**
Input	**signal, nominal 125 VDC**
Continuous	**Isolation Voltage 250 Volts AC**
Input	**signal, range 0-150 VDC**
Maximum	**Isolation Voltage for 1 Minute 1500 Volts AC**
Input	**current 1.7 mA, typical at 125 VDC; 2.2 mA, typical at 150 VDC**
Supported	**Logic Positive and Negative**
Current	**Draw 80 mA, maximum**
Isolation	**User input to logic (optical) and frame ground: 250VAC continuous; 1500VAC for 1 minute Group to group: 250VAC continuous; 1500VAC for 1 minute**
Input	**grouping Individually isolated**
Input	**response time 0.5 ms, maximum**
Input	**impedance 74 KΩ, typical at 125 VDC**
Filter	**time 0 ms; 1.0 ms; 7.0 ms**
External	**power supply none required**
The	**IC200MDL632 is part of**

3. Product Information

The IC200MDL632 is a 16-Point discrete input module from the VersaMax I/O series formerly produced by GE Intelligent Platforms, now under Emerson Automation. This module has Sixteen (16) positive and negative logic isolated input channels that accept of 125 VDC nominal voltage at input voltage range of 0-150 VDC and user input current 1.7 mA, typical at 125 VDC and 2.2 mA,

Technical specifications for IC200MDL632

Manufacturer GE Fanuc

Series Versamax

Manufacturer GE Intelligent Platforms (Former); Emerson Automation (Current)

Part Number IC200MDL632

Series VersaMax

Product Type Input Module

Part Number IC200MDL632

Number of Inputs 16

Product Description Discrete Input Module

Isolated Inputs Yes

No. of channels Sixteen (16)

Nominal Voltage 125 Volts DC

Input signal, nominal 125 VDC

Continuous Isolation Voltage 250 Volts AC

Input signal, range 0-150 VDC

Maximum Isolation Voltage for 1 Minute 1500 Volts AC

Input current 1.7 mA, typical at 125 VDC; 2.2 mA, typical at 150 VDC

Supported Logic Positive and Negative

Current Draw 80 mA, maximum

Isolation User input to logic (optical) and frame ground: 250VAC continuous; 1500VAC for 1 minute Group to group: 250VAC continuous; 1500VAC for 1 minute

Input grouping Individually isolated

Input response time 0.5 ms, maximum

Input impedance 74 KΩ, typical at 125 VDC

Filter time 0 ms; 1.0 ms; 7.0 ms

External power supply none required

The IC200MDL632 is part of the VersaMax I/O platform formerly by GE Intelligent Platforms now manufactured by Emerson Automation. This module is mainly used to interface signaling devices that operate in binary state or On/Off position such as pushbutton, limit switches, proximity sensors, auxiliary contacts and similarly operating mechanical or electrical devices. The IC200MDL632 has Sixteen (16) individually isolated input channels that support Positive and Negative logic wiring configuration. With individual channel isolation, each channel may be wired differently, according to the wiring configuration supported by the input device wiring configuration. Additionally, a failed input common or a failed channel does not affect the operation of the entire module. It may still continue to operate even with multiple failed channels. This contributes to an increased module availability which also translates to higher control system availability, suitable for more complex or critical applications. The input channels of the IC200MDL632 are provided with channel to channel isolation rating of 250VAC continuous; 1500VAC for 1 minute. This isolation rating also applies to optical isolation which is the user input to logic isolation and also the frame to ground isolation. Each channel accepts a nominal input signal voltage 125 VDC while the accepted input voltage range is 0-150 VAC with an input current requirement of 1.7 mA, typical at 125 VDC and 2.2 mA, typical at 150 VDC. Each channel has 0.5 ms On to Off and Off to On changeover delay and configurable filter setting of 0 ms, 1.0 ms and 7.0 ms where 1.0 ms is the default setting.

The GE Fanuc IC200MDL632 input module is a Versamax series input module that runs on DC voltage. Its nominal voltage rating is 125 Volts DC and it comes with 16 input points. All 16 of these input points are isolated. The IC200MDL632 supports positive logic and negative logic. The 16 input points can all be configured for either type of logic, which will affect how they operate. The positive logic inputs receive current from the input devices that are part of the same Versamax PLC system as the IC200MDL632 input module, and then they return the same current on the return. The negative logic inputs do the opposite, and they receive the current from the return and send it to the connected input devices which are found between the input terminals and the return terminals in the PLC. The GE Fanuc IC200MDL632 16-point isolated input module is CE certified. It receives its power from the Versamax PLC’s backplane. The OK LED on the IC200MDL632 input module glows green when the backplane power is connected to the module. The backplane power also powers the LEDs for each of the 16 input points, and these LEDs glow when their corresponding input points are powered on. The IC200MDL632 input module normally does not require filtering in order to operate properly, but in certain industrial environments or for certain applications, installing filters may protect the module, enhance its operation, or extend its lifespan. The isolation voltage on the IC200MDL632 input module is 250 V