# GE Series 90-30 Series Service Manual

IC693MDL645

## 1. Description

The GE Fanuc IC693MDL645 is a Series 90-30 module. This module is a positive / negative logic input module that features Sixteen (16) input channels with operating voltage range of 0-30VDC. This module has an input current rating of 7 mA with One (1) input group.

## 2. Specifications

| Specification | Value |
|---|---|
| Brand | **GE Fanuc** |
| Series | **Series 90-30** |
| Part | **Number IC693MDL645** |
| Internal | **Power Used 80 mA at 5 VDC, 125 mA at 24 VDC Isolated** |
| Module | **type Positive / Negative Discrete input** |
| Input | **Voltage Range 0-30 VDC** |
| Nominal | **Input voltage 24VDC** |
| Input | **Current (mA) 7 mA** |
| Number | **of points Sixteen (16)** |
| Module | **width Single (1) slot** |
| Connector | **Type Terminal Block (20 screws), included with module.** |
| Compatible | **baseplate Series 90-30 5-slot or 10 slot baseplate** |
| LED | **indicators Sixteen (16) LED indicators (1 per channel)** |
| Module | **type Discrete input** |
| Power | **Type DC** |
| Input | **Voltage Range 0-30 VDC** |
| Input | **Current (mA) 7** |
| Number | **of points 16** |
| Response | **Time (ms) 7 ms on, 7 ms off** |
| Connector | **Type Terminal Block (20 screws), included with module.** |
| Product | **Lifecycle Status* Discontinued/Obsolete** |
| The | **GE Fanuc module with part number IC693MDL645 is a Series 90-30 Positive / Negative logic input module. This module is used to interface input devices such as pushbuttons, limit switches, proximity switches, auxiliary contacts and other simil** |

## 3. Product Information

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Technical specifications for IC693MDL645

Brand GE Fanuc

Series Series 90-30

Part Number IC693MDL645

Internal Power Used 80 mA at 5 VDC, 125 mA at 24 VDC Isolated

Module type Positive / Negative Discrete input

Input Voltage Range 0-30 VDC

Nominal Input voltage 24VDC

Input Current (mA) 7 mA

Number of points Sixteen (16)

Module width Single (1) slot

Connector Type Terminal Block (20 screws), included with module.

Compatible baseplate Series 90-30 5-slot or 10 slot baseplate

LED indicators Sixteen (16) LED indicators (1 per channel)

Module type Discrete input

Power Type DC

Input Voltage Range 0-30 VDC

Input Current (mA) 7

Number of points 16

Response Time (ms) 7 ms on, 7 ms off

Connector Type Terminal Block (20 screws), included with module.

Product Lifecycle Status* Discontinued/Obsolete

The GE Fanuc module with part number IC693MDL645 is a Series 90-30 Positive / Negative logic input module. This module is used to interface input devices such as pushbuttons, limit switches, proximity switches, auxiliary contacts and other similar devices.

The IC693MDL645 is provided with a single input group, having One (1) common terminal. It can accept external voltage signals ranging 0-30 VDC with nominal voltage of 24VDC while the input current requirement is 7 mA at rated voltage with field side and logic side isolation rated at 1500 Volts.

The IC693MDL645 has an ON-state voltage rating of 11.5 - 30 VDC and OFF state voltage of 0-5VDC. Similarly, the ON-state current is 3.2 mA, minimum and 1.1 mA OFF-state current. The module’s ON-response time is 7 ms for both ON and OFF states. This module is installed to an available slot of a 90-30 PLC system 5-slot or 10-slot baseplate. It draws current from the backplane with 80 mA (all inputs on) from 5 volt bus on backplane and 125 mA from the Isolated 24 volt backplane bus or from user supplied power. Internally, the received voltage signal of the module is stored to the %I status table.

The IC693MDL645 has status LED indicators installed to depict the energization state of each channel. These indicators may also be used as troubleshooting reference, confirming if the signal voltage from the external connected device has reached the specific input point of the module. This module uses a 20-slot removable terminal block and provided with circuit information, printed on the hinged dorr of the module.

The GE Fanuc IC693MDL645 module comes with an input voltage range of 0 to 30 Volts DC, while the input current is rated at 7 milliamps. The response time is rated as 7 milliseconds on and 7 milliseconds off while the trigger voltage is 11.5 to 30 Volts. The connector type is rated as the terminal block type and it uses up to 20 screws that are all included with the module. The internal power is rated as 80 milliamps of current at 5 Volts DC with 125 milliamps of current at 24 Volts DC isolated voltage.