

GE IC693MDL655 Manual

Brand	GE
Product Series	Series 90-30
Product Type	Discrete I/O

Description

The IC693MDL655 is a Series 90-30 Discrete Input module formerly manufactured by GE Fanuc, now under Emerson Automation. This module features Thirty-Two (32) 24VDC input channels supporting Positive / Negative logic wiring configuration. It accepts 0-30 VDC input voltage range and input current of 7 mA. This module has backplane current draw of 195 mA @ 5VDC and 224 mA @ 24VDC.

Technical specifications for IC693MDL655

Brand GE Fanuc

Series Series 90-30

Manufacturer GE Fanuc

Part Number IC693MDL655

Product Description Discrete input module

Module Type Discrete I/O

No of Channels Thirty-Two (32)

Power Type DC

No. of groups Four (4)

Input Voltage range 0-30 VDC

No. of channels per group Eight (8)

Input Current (mA) 7

Wiring configuration Positive / Negative logic

Response Time (ms) 2 on/2 off

Input signal range 0-30 VDC

number of points 32

Nominal Input voltage 24 VDC

Trigger Voltage 11.5-30 Volts

Input current 7 mA per channel

Product Lifecycle Status* Discontinued/Obsolete

Current draw 195 mA @ 5VDC; 224 mA @ 24 VDC

On State Voltage 11.5 - 30.0 VDC

Off state voltage 0-5 VDC

On state current 3.2 mA

Off state current 1.1 mA

On response time, typical 2 ms

On response time, maximum 2 ms

Product Lifecycle Status Discontinued/Obsolete

The IC693MDL655 is a High-density, digital input module that is part of Emerson Automation's Series 90-30 Programmable Logic Controller (PLC) platform. This input module is designed to be installed to any Series 90-30 baseplate whether CPU baseplate, I/O Expansion baseplate or Remote I/O baseplate. It is directly mounted to any available I/O slot of a 5-slot or 10-slot baseplate and occupies single slot only. Additionally, this module is compatible for use with embedded 90-30 CPUs and modular 90-30 CPUs. Being a high-density input module, it features Thirty-Two (32) input points, grouped in Four (4) with Eight (8) inputs per group. Each channel is compatible to be wired with On/Off type of devices that operate at voltage signal range of 0-30 VDC and nominal voltage of 24

VDC. Typical On/Off devices used with this module are limit switches, level switches, proximity switches, auxiliary contacts, pushbutton devices and other devices that are operating similarly. Unlike other digital input modules, the IC693MDL655 uses Two (2) male 24-pin type connectors with ordering number Fujitsu FCN-365P024-AU. This is pre-mounted on the front panel of the module that interfaces to input groups A, B, C and D. This requires use of pre-wired cables which are separately purchased. Compatible pre-wired cables are IC693CBL327 and IC693CBL328. Additionally, this cable can be custom built. The IC693MDL655 is also provided with LED status indicators that with group identifiers as well. LED indicators are labelled as A1-A8 (Group 1); B1-B8 (Group 2); C1-C8 (Group 3) and D1 - D8 (Group 4).

The IC693MDL655 module is a 24 Volts DC input module. This module features positive or negative logic and it comes with 32 input points which are divided into 4 groups of 8 inputs each. The IC693MDL655 module features an input voltage range of 0 to 30 Volts DC. The isolation is rated as 1500 Volts between the field side and the logic side. The input current rate is 7.0 milliamps of typical ON current at 24 Volts DC. The on-state voltage is 11.5 to 30 Volts DC while the off-state voltage is 0 to 5 Volts DC. The on/off response time is indicated as 2 milliseconds maximum. The IC693MDL655 module's backplane isolation between the field side and the logic side is provided by the OptoCouplers on the module. Connections to the IC693MDL655 module's input circuits is made from the user's input devices to 2 male 24-pin connectors, which are mounted on the front of the module. The external input devices include the proximity sensors, the pushbuttons, and the BCD thumbwheels.

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