

IC670MDL233

GE Fanuc eight-point 120 VAC isolated discrete input module

Eight isolated 120 VAC on/off input states

PRODUCT SNAPSHOT

BRAND

GE

FAMILY

GE Fanuc Field Control distributed I/O

PART

IC670MDL233

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PRODUCT OVERVIEW

Eight isolated 120 VAC on/off input states

1

Provides eight individually isolated AC inputs

2

Accepts 0 to 132 V AC at 47-63 Hz

3

Uses one byte of discrete input data

4

Displays one logic-side status LED per point

SYSTEM COMPONENTS

Eight 120 VAC field contacts

Separate point returns

Field Control terminal block

Compatible BIU or MFP

TECHNICAL NOTE

Preserve the isolation boundary and individual return for every point; verify de-energized voltage, response time and logic status before restoring the process.

TECHNICAL DATA

PARAMETER	VALUE
Catalog number	IC670MDL233
Input points	8 isolated
Rated voltage	120 V AC
Input-voltage range	0 to 132 V AC; 47 to 63 Hz
Typical input current	13 mA per point at rated voltage
Input data	8 bits; 1 byte
Input impedance	10 kohm typical; reactive

PARAMETER	VALUE
On-state voltage	70 to 120 V AC
Off-state voltage	0 to 20 V AC
On response	10 ms typical; 20 ms maximum
Off response	20 ms typical; 40 ms maximum
BIU current	40 mA maximum
Isolation	250 V AC continuous; 1500 V AC for 1 minute

ENGINEERING NOTE

Preserve the isolation boundary and individual return for every point; verify de-energized voltage, response time and logic status before restoring the process.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
DS200QTBAG1ADC	Related GE product	View DS200QTBAG1ADC page
DS3800NGDC1B1A	Related GE product	View DS3800NGDC1B1A page
IS420UCSBH1A	Related GE product	View IS420UCSBH1A page
IC200CPUE05-JP	Related GE product	View IC200CPUE05-JP page
IC200UDR005-CH	Related GE product	View IC200UDR005-CH page
IS200WREAH1ABB	Related GE product	View IS200WREAH1ABB page
IS200EHPAG1DAB	Related GE product	View IS200EHPAG1DAB page
IS200EGDMH1AFG	Related GE product	View IS200EGDMH1AFG page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

isolated 120 VAC discrete-state acquisition field station

Provides eight individually isolated AC inputs

Remote I/O cabinet integration

Accepts 0 to 132 V AC at 47-63 Hz

Installed-base module renewal

Uses one byte of discrete input data

Controlled commissioning and diagnostics

Displays one logic-side status LED per point

PRODUCT PRECAUTIONS

- 1 Verify the complete IC670MDL233 catalog marking and assigned Field Control position before work.
- 2 Place the connected isolated 120 VAC discrete-state acquisition process in its approved maintenance state before disturbing the station.
- 3 Isolate BIU and field power, then confirm a safe condition at the IC670MDL233 terminal block.
- 4 Label and record individual point conductors, group commons and field-power feeds before disconnecting any conductor from IC670MDL233.
- 5 Use ESD controls and protect the module connector, terminal block keying and exposed electronics.
- 6 Restore only the documented input/output defaults, data reference and fault reporting; do not copy settings from an adjacent module.
- 7 Energize in a controlled sequence and review PWR, channel, module and network diagnostics.
- 8 Complete point-by-point state, response-time and diagnostic checks and retain the final result before returning the process to service.

ENGINEER FAQ

Q1 Does IC670MDL233 match Eight 120 VAC field contacts in a isolated 120 VAC discrete-state acquisition field station installation?

Verify the complete IC670MDL233 marking, the documented GE Fanuc Field Control distributed I/O position and the installed Eight 120 VAC field contacts before fitting the assembly.

Q3 Which GE Fanuc Field Control distributed I/O records should be captured before removing IC670MDL233?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with IC670MDL233 before disconnection.

Q5 Which Separate point returns condition should be checked when IC670MDL233 reports an abnormal state?

Check the Separate point returns supply, seating and connection first, then compare channel diagnostics with the recorded IC670MDL233 baseline.

Q7 What maintenance evidence is required after IC670MDL233 is used for Installed-base module renewal?

Retain the nameplate record, corrective action, final diagnostics and a controlled installed-base module renewal functional-test result for IC670MDL233.

Q2 How should IC670MDL233 be wired when it must provides eight individually isolated ac inputs?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for IC670MDL233; then continuity-test the affected path.

Q4 What controlled test confirms that IC670MDL233 can accepts 0 to 132 v ac at 47-63 hz?

Apply the approved field or simulated stimulus, observe the GE Fanuc Field Control distributed I/O indication and confirm the intended response without bypassing the normal interlocks.

Q6 Can IC670MDL233 be moved directly into Remote I/O cabinet integration without validating Compatible BIU or MFP?

No. Confirm the Compatible BIU or MFP, revision, connection scheme and GE Fanuc Field Control distributed I/O configuration before transferring IC670MDL233 to that duty.

Q8 How should IC670MDL233 be returned to service in Controlled commissioning and diagnostics?

Restore power under control, verify uses one byte of discrete input data, exercise the intended signal path and release IC670MDL233 only after the GE Fanuc Field Control distributed I/O remains in its approved operating state.

SOURCE GE Fanuc Field Control Distributed I/O and Control System I/O Modules User's Manual | GFK-0826J, June 2002

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