

IC670MDL640

GE Fanuc sixteen-point 24 VDC positive/negative discrete input module

Sixteen 24 VDC source or sink discrete input states

PRODUCT SNAPSHOT

BRAND

GE

FAMILY

GE Fanuc Field Control distributed I/O

PART

IC670MDL640

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PRODUCT OVERVIEW

Sixteen 24 VDC source or sink discrete input states

1

Provides sixteen 24 VDC inputs

2

Supports positive or negative logic for the whole group

3

Transfers two bytes of discrete data

4

Filters and optically isolates the field-input state

SYSTEM COMPONENTS

24 V DC field supply

Sixteen source or sink input devices

Field Control terminal block

Compatible BIU or MFP

TECHNICAL NOTE

Wire all sixteen points for the same positive or negative logic, confirm supply polarity and verify the 15 V on-state threshold before acceptance.

TECHNICAL DATA

PARAMETER	VALUE
Catalog number	IC670MDL640
Input points	16; single group
Logic selection	All positive or all negative
Rated voltage	24 V DC
Input-voltage range	0 to 30 V DC
Typical input current	7.5 mA per point at 24 V DC
Input data	16 bits; 2 bytes
Input impedance	3 kohm typical

PARAMETER	VALUE
Positive on-state voltage	+15 to +30 V DC
Negative on-state voltage	-15 to -30 V DC
Off-state magnitude	0 to 5 V DC
On-state current	3.0 to 8.0 mA
Off-state current	0 to 1.5 mA
On/off response	6 ms typical; 10 ms maximum
BIU current	75 mA typical; 83 mA maximum

ENGINEERING NOTE

Wire all sixteen points for the same positive or negative logic, confirm supply polarity and verify the 15 V on-state threshold before acceptance.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
IC693CHS391N	Related GE product	View IC693CHS391N page
IC693ALG222C	Related GE product	View IC693ALG222C page
IC660TBA024	Related GE product	View IC660TBA024 page
IC660BBA104	Related GE product	View IC660BBA104 page
IC660BBA100	Related GE product	View IC660BBA100 page
IC600BF843	Related GE product	View IC600BF843 page
IC200CHS022L	Related GE product	View IC200CHS022L page
IC200ALG430	Related GE product	View IC200ALG430 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

positive- or negative-logic 24 VDC input acquisition field station

Provides sixteen 24 VDC inputs

Remote I/O cabinet integration

Supports positive or negative logic for the whole group

Installed-base module renewal

Transfers two bytes of discrete data

Controlled commissioning and diagnostics

Filters and optically isolates the field-input state

PRODUCT PRECAUTIONS

- 1 Verify the complete IC670MDL640 catalog marking and assigned Field Control position before work.
- 2 Place the connected positive- or negative-logic 24 VDC input acquisition process in its approved maintenance state before disturbing the station.
- 3 Isolate BIU and field power, then confirm a safe condition at the IC670MDL640 terminal block.
- 4 Label and record individual point conductors, group commons and field-power feeds before disconnecting any conductor from IC670MDL640.
- 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 IC670MDL640 match 24 V DC field supply in a positive- or negative-logic 24 VDC input acquisition field station installation?

Verify the complete IC670MDL640 marking, the documented GE Fanuc Field Control distributed I/O position and the installed 24 V DC field supply before fitting the assembly.

Q3 Which GE Fanuc Field Control distributed I/O records should be captured before removing IC670MDL640?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with IC670MDL640 before disconnection.

Q5 Which Sixteen source or sink input devices condition should be checked when IC670MDL640 reports an abnormal state?

Check the Sixteen source or sink input devices supply, seating and connection first, then compare channel diagnostics with the recorded IC670MDL640 baseline.

Q7 What maintenance evidence is required after IC670MDL640 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 IC670MDL640.

Q2 How should IC670MDL640 be wired when it must provides sixteen 24 vdc inputs?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for IC670MDL640; then continuity-test the affected path.

Q4 What controlled test confirms that IC670MDL640 can supports positive or negative logic for the whole group?

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 IC670MDL640 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 IC670MDL640 to that duty.

Q8 How should IC670MDL640 be returned to service in Controlled commissioning and diagnostics?

Restore power under control, verify transfers two bytes of discrete data, exercise the intended signal path and release IC670MDL640 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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