

IC670MDL640

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

CONTROLLED ENGINEERING COPY

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

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	IC670MDL640
Manufacturer part	IC670MDL640
Hardware type	IC670MDL640
System family	GE Fanuc Field Control distributed I/O



APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com



01 PRE-INSTALLATION PLAN

- 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.

MATCHED HARDWARE

- 24 V DC field supply
- Sixteen source or sink input devices
- Field Control terminal block
- Compatible BIU or MFP

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	IC670MDL640 / IC670MDL640 recorded
Physical interface	24 V DC field supply
Companion check	Sixteen source or sink input devices
Functional proof	Provides sixteen 24 VDC inputs
Application test	positive- or negative-logic 24 VDC input acquisition field station

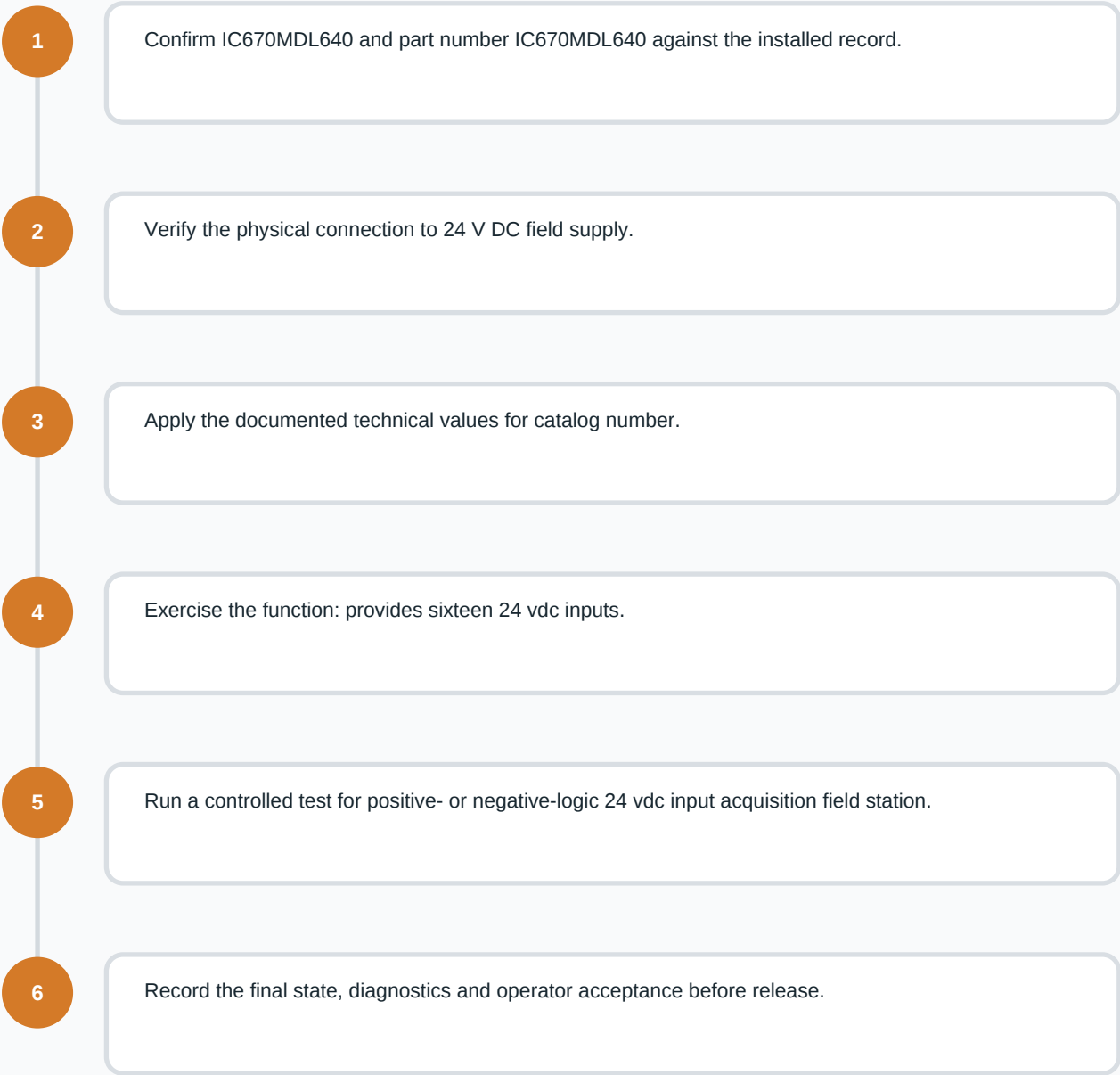
02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED 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
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

FIELD 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.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	IC670MDL640 / IC670MDL640 recorded
Physical interface	24 V DC field supply
Companion check	Sixteen source or sink input devices
Functional proof	Provides sixteen 24 VDC inputs
Application test	positive- or negative-logic 24 VDC input acquisition field station

04 RETURN-TO-SERVICE RECORD

- ☐ Restore only the documented input/output defaults, data reference and fault reporting; do not copy settings from an adjacent module.
- ☐ Energize in a controlled sequence and review PWR, channel, module and network diagnostics.
- ☐ Complete point-by-point state, response-time and diagnostic checks and retain the final result before returning the process to service.
- ☐ Confirm the intended process response before normal operation.

VERIFICATION RECORD

PRODUCT IDENTITY	IC670MDL640
INSTALLED POSITION	Documented GE Fanuc Field Control distributed I/O position
VERIFICATION METHOD	Controlled inspection and functional test
RELEASE RECORD	Final diagnostic state retained before service

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
IS220UCSAH1A	Related GE product	View IS220UCSAH1A page
IC200PBI001	Related GE product	View IC200PBI001 page
IC200ETM001	Related GE product	View IC200ETM001 page
IC200ALG320	Related GE product	View IC200ALG320 page
IC695ALG600-DD	Related GE product	View IC695ALG600-DD page
IC694PWR321	Related GE product	View IC694PWR321 page
IC693MDL940H	Related GE product	View IC693MDL940H page
IC693MDL930C	Related GE product	View IC693MDL930C page

SOURCE IDENTIFIERS

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

APTER POWER SALES TEAM

WHATSAPP / PHONE	+86 180 3023 5313
EMAIL	sales13@apterpower.com
WEBSITE	www.apterpower.com

