

INDUSTRIAL AUTOMATION PRODUCT

IC660BBA103

115 VAC/125 VDC Thermocouple Input Block

GE IC660BBA103 is a 115 VAC/125 VDC Thermocouple Input Block for the GE Genius I/O. It provides the documented field interface or control function in the configured system.

CONTROLLED ENGINEERING COPY

IDENTITY	VERIFIED VALUE
Manufacturer	General Electric
System family	GE Genius I/O
Part number	IC660BBA103
Document status	Controlled product and system reference

DOCUMENT SCOPE

Exact article identity, official technical data, host matching, installation checks, applications, precautions and controlled acceptance evidence.

MODEL-SPECIFIC ENGINEERING NOTE

Install IC660BBA103 only in the documented GE Genius I/O position. Preserve the as-found terminal mapping and configuration, then verify diagnostics and the affected field function under controlled conditions.

System Role and Architecture

GE IC660BBA103 is a 115 VAC/125 VDC Thermocouple Input Block for the GE Genius I/O. It provides the documented field interface or control function in the configured system.

FUNCTION 1
Provides the documented 115 vac/125 vdc thermocouple input block function

FUNCTION 2
Uses exact catalog identity IC660BBA103 for replacement control

FUNCTION 3
Integrates with the matched GE Genius I/O hardware

FUNCTION 4
Supports controlled connection checks and functional verification

MATCHED SYSTEM COMPONENTS

NO.	DOCUMENTED COMPONENT / ROLE
01	GE Genius I/O
02	Matched extension cable and ClickLoc connector loop
03	3300 XL Proximity Sensor host channel
04	AISI 4140 steel target or approved equivalent

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	GE Genius I/O
Interface role	115 VAC/125 VDC Thermocouple Input Block
Field / power context	Matched GE Genius bus, terminal assembly and configured host system
Commissioning evidence	Identity, gap, polarity, response and alarm diagnostics recorded

INSTALLATION AND CONNECTION CHECKS

- 1

Confirm the full IC660BBA103 catalog marking and installed GE Genius I/O position before work.
- 2

Isolate the station supply and connected field energy using the approved procedure.
- 3

Record every terminal, common, shield, connector and configured point before removal.
- 4

Use ESD controls and protect backplane, terminal and connector contacts from contamination.

Technical Specifications

Technical values below are limited to the named product record and directly applicable manufacturer documentation.

PARAMETER	VALUE	PARAMETER	VALUE
Thermocouple inputs	6	Input amplifier bandwidth	8 Hz
Input grouping	Three isolated groups of two	Block power	93 to 132 VAC or 105 to 145 VDC
Supported types	J, K, T, E, B, R, S and N	Block isolation	1500 V for one minute
Voltage range	-25.0 to +150 mV	Group isolation	300 V
Resolution	Less than 4 uV	Heat dissipation	9 W maximum

RELATED GE PRODUCT PAGES

1GE IC670ALG630

2GE IC670ALG620

3GE IC670ALG330

4GE IC670ALG320

5GE IC670ALG310

6GE IC670ALG240

7GE IC670ALG230

8GE IC670MFP100

9GE IC670FBI001

ENGINEERING BOUNDARY

Confirm IC660BBA103, GE Genius I/O host, hardware revision, terminal or connector type, power and signal ranges, wiring, grounding, bus configuration, companion accessories and controlled commissioning results before service release.

PRE-INSTALLATION CHECKS

- 1

Confirm the full IC660BBA103 catalog marking and installed GE Genius I/O position before work.
- 2

Isolate the station supply and connected field energy using the approved procedure.
- 3

Record every terminal, common, shield, connector and configured point before removal.
- 4

Use ESD controls and protect backplane, terminal and connector contacts from contamination.

Applications and Engineering Context

GE Genius I/O station maintenance

Restores the documented 115 vac/125 vdc thermocouple input block function in an engineered station.

Distributed I/O refurbishment

Uses exact IC660BBA103 identity when rebuilding the recorded field interface.

Control-panel modernization

Preserves the approved terminal, power and communications arrangement during migration work.

Controlled recommissioning

Verifies point mapping, diagnostics and field response before process release.

TECHNICAL NOTE

Install IC660BBA103 only in the documented GE Genius I/O position. Preserve the as-found terminal mapping and configuration, then verify diagnostics and the affected field function under controlled conditions.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	IC660BBA103 recorded
Host / carrier	GE Genius I/O
Physical interface	Exact model, bus position, terminals and connected field circuits matched
Configuration	Device number, I/O assignments and approved configuration restored
Functional proof	Controlled diagnostics and field-response test recorded

IMPORTANT NOTICE

Confirm IC660BBA103, GE Genius I/O host, hardware revision, terminal or connector type, power and signal ranges, wiring, grounding, bus configuration, companion accessories and controlled commissioning results before service release.

Related Products and Source Record

Brand-qualified Apter Power navigation links are provided for system planning only; manufacturer evidence remains the named source record.

RELATED PRODUCTS ON APTER POWER

1

GE IC670ALG630

View GE IC670ALG630 page

2

GE IC670ALG620

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GE IC670ALG330

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GE IC670ALG320

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GE IC670ALG230

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GE IC670MFP100

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GE IC670FBI001

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MANUFACTURER SOURCE RECORD

Genius I/O Discrete and Analog Blocks User's Manual | GE Fanuc GEK-90486D-2, September 1993

APTER POWER SALES TEAM

WHATSAPP / PHONE

+86 180 3023 5313

EMAIL

sales13@apterpower.com

WEBSITE

www.apterpower.com



RECOMMENDATION SCOPE

These links support product navigation and comparison. Technical values in this document are sourced only from the manufacturer record above.