

3664

32-Point Dual 24 VDC Digital Output Module

CONTROLLED ENGINEERING COPY

Wire field power to every used output through the approved panel, confirm per-point and surge loading, and exercise loopback plus LOAD/FUSE diagnostics before enabling safety commands.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	3664
Manufacturer part	3664
Hardware type	Dual serial digital output
System family	Tricon dual digital output



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01 PRE-INSTALLATION PLAN

- 1

Verify 3664 and the de-energize-to-trip application before module replacement.
- 2

Place all commanded equipment in the approved safe state and isolate field power.
- 3

Record thirty-two channel assignments, common supply, and expected de-energized states.
- 4

Confirm each load stays within the two-amp point and ten-amp surge limits.
- 5

Use a listed termination panel and preserve the sourced-output wiring arrangement.

MATCHED HARDWARE

- Tricon I/O chassis and hot-spare position
- 9662-610 or compatible termination panel
- 16-30 VDC field supply
- solenoids, relays, or other protected DC loads

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	3664 / 3664 recorded
Physical interface	Tricon I/O chassis and hot-spare position
Companion check	9662-610 or compatible termination panel
Functional proof	Applies two-out-of-three voting to each of thirty-two output switches
Application test	De-energize-to-trip solenoid output banks

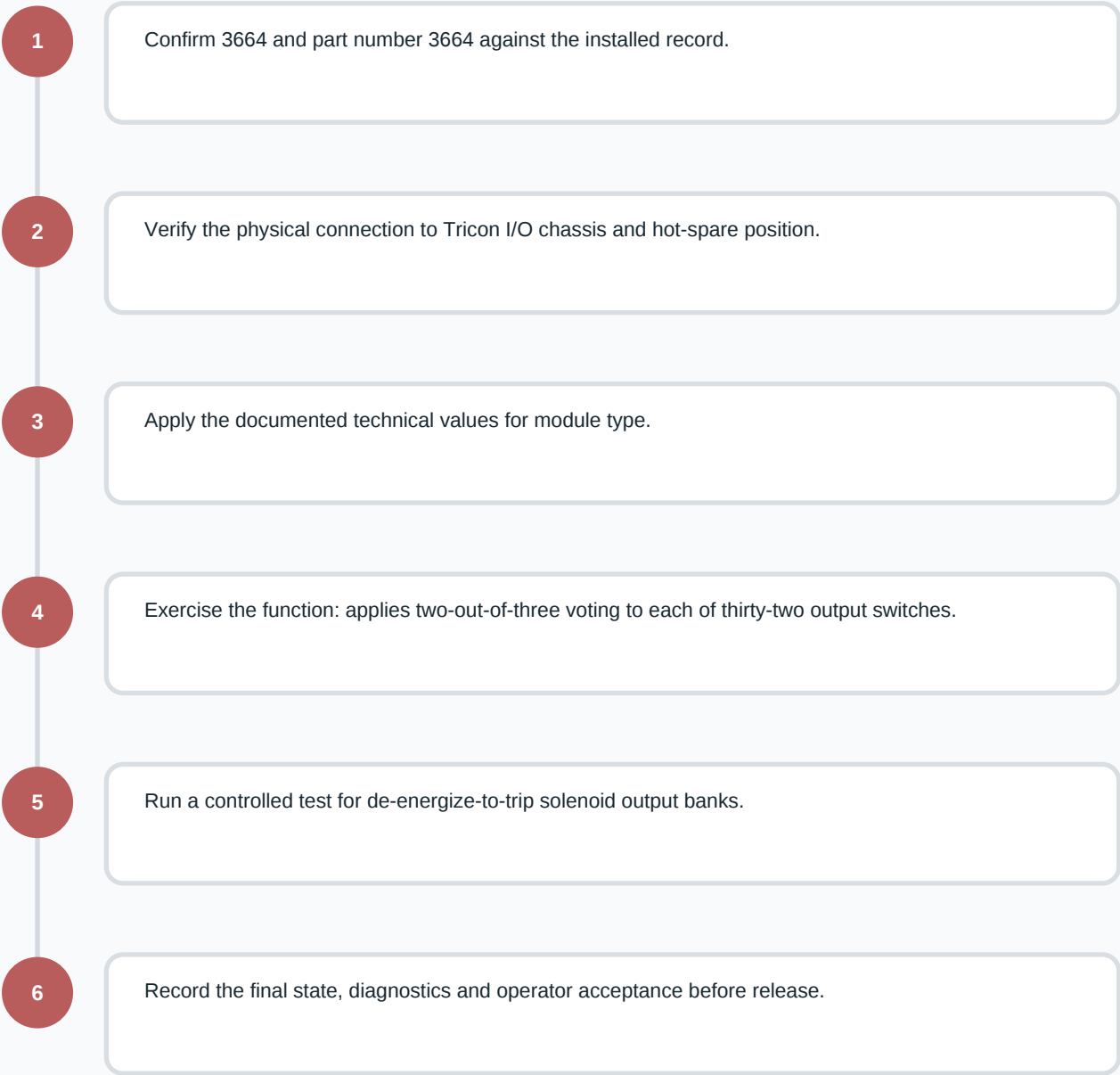
02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Module type	Dual serial digital output
Nominal voltage	24 VDC
Output signals	32 commoned
Voltage range	16 to 30 VDC
Maximum voltage	36 VDC
Typical voltage drop	<1.5 VDC
Power-module load	<10 W
Maximum point current	2 A
Surge current	10 A for 10 ms
Load leakage	2 mA maximum
Output protection	Self-protecting; no field-termination fuses
Point isolation	1500 VDC minimum
Status indicators	1 per point; PASS; FAULT; ACTIVE; LOAD/FUSE
Color code	Dark blue

FIELD NOTE

Wire field power to every used output through the approved panel, confirm per-point and surge loading, and exercise loopback plus LOAD/FUSE diagnostics before enabling safety commands.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	3664 / 3664 recorded
Physical interface	Tricon I/O chassis and hot-spare position
Companion check	9662-610 or compatible termination panel
Functional proof	Applies two-out-of-three voting to each of thirty-two output switches
Application test	De-energize-to-trip solenoid output banks

04 RETURN-TO-SERVICE RECORD

- ☐ Use ESD controls and check module keying plus the hot-spare position.
- ☐ Command outputs individually and compare field voltage with LOAD/FUSE indication.
- ☐ Test hot-spare transfer and the final shutdown function before production release.
- ☐ Confirm the intended process response before normal operation.

VERIFICATION RECORD

TECHNICIAN

DATE

CABINET / POSITION

FINAL DIAGNOSTIC STATE

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Triconex 9662-610	24 VDC Digital Output Termination Panel	Open product page
Triconex 3008	Main Processor Module	Open product page
Triconex 8312	230 VAC Power Module	Open product page

SOURCE IDENTIFIERS

Tricon Systems Technical Product Guide
9791007-013

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