

3624

16-Point 24 VDC Supervised Digital Output Module

CONTROLLED ENGINEERING COPY

Confirm the 9662-610 pairing, commoned power polarity and load at every point before energization; prove the missing-load diagnostic and a controlled output response before release.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	3624
Manufacturer part	3624
Hardware type	TMR digital output
System family	Tricon v9-v10 digital output
HS code	8537101190



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01 PRE-INSTALLATION PLAN

- 1

Verify the complete 3624 marking and assigned Tricon output slot before removal.
- 2

Isolate commoned 24 VDC power and prove the connected safety loads de-energized.
- 3

Confirm 9662-610 compatibility and keep the panel within its 16 A total-current limit.
- 4

Preserve the numbered 1-16 channel identity and documented PWR+ / PWR- polarity.
- 5

Install a field load at every point; use the documented 470 ohm, 10 W resistor when no load is present.

MATCHED HARDWARE

- Tricon main and I/O chassis
- 9662-610 commoned digital-output termination panel
- 24 VDC field supply and supervised loads
- Tricon v9-v10 configuration

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	3624 / 3624 recorded
Physical interface	Tricon main and I/O chassis
Companion check	9662-610 commoned digital-output termination panel
Functional proof	Drives sixteen supervised 24 VDC digital-output points
Application test	Emergency shutdown and trip-valve outputs

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Module type	TMR digital output
Output voltage	24 VDC
Output points	16
Output arrangement	Opto-isolated, commoned, supervised
Protection	Self-protected
Compatible termination panel	9662-610
Panel current limit	16 A maximum
Required load	Load at every point; 470 ohm, 10 W resistor if no field load

SYSTEM CONNECTION RECORD

CONNECTION ITEM	DOCUMENTED ASSIGNMENT
Installed host / carrier	Tricon main and I/O chassis
Companion hardware	9662-610 commoned digital-output termination panel
Field connection	24 VDC field supply and supervised loads
Primary system function	Drives sixteen supervised 24 VDC digital-output points
Controlled acceptance duty	Emergency shutdown and trip-valve outputs

FIELD NOTE

Confirm the 9662-610 pairing, commoned power polarity and load at every point before energization; prove the missing-load diagnostic and a controlled output response before release.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	3624 / 3624 recorded
Physical interface	Tricon main and I/O chassis
Companion check	9662-610 commoned digital-output termination panel
Functional proof	Drives sixteen supervised 24 VDC digital-output points
Application test	Emergency shutdown and trip-valve outputs

04 RETURN-TO-SERVICE RECORD

- ☐
- Use ESD controls and inspect the keyed module and termination-panel connectors.

☐☐☐

VERIFICATION RECORD

PRODUCT IDENTITY	3624
INSTALLED POSITION	Documented Tricon v9-v10 digital output 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
Triconex 3625	Supervised Digital Output Module	View Triconex 3625 page
Triconex 3664	Dual Digital Output Module	View Triconex 3664 page
Triconex 9662-610	Digital Output Termination Panel	View Triconex 9662-610 page
Triconex 3703E	Analog Input Module	View Triconex 3703E page
Triconex 3511	Analog Input Module	View Triconex 3511 page
Triconex 3704E	Analog Input Module	View Triconex 3704E page
Triconex EMPII 3006	Main Processor Module	View Triconex EMPII 3006 page
Triconex 9853-610	Termination Panel	View Triconex 9853-610 page

SOURCE IDENTIFIERS

Tricon Systems Technical Product Guide
9791007-013, Product Specifications pp. 19, 26; Field Terminations Guide 9700052-018 pp. 106-109

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