

8C-TDODB1

Redundant Digital Output IOTA

Honeywell 8C-TDODB1 is a redundant 32-channel Series 8 digital-output IOTA for 24 Vdc source-output applications.

PRODUCT SNAPSHOT

BRAND

Honeywell

FAMILY

Experion Series 8 I/O

PART

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PRODUCT OVERVIEW

Honeywell 8C-TDODB1 is a redundant 32-channel Series 8 digital-output IOTA for 24 Vdc source-output applications.

1

Terminates thirty-two source outputs

2

Supports redundant output modules

3

Groups channels in protected banks

4

Distributes 24 Vdc field power

SYSTEM COMPONENTS

Two 8C-PDODA1 modules

24 Vdc user supply

Series 8 carrier

Protected discrete loads

TECHNICAL DATA

PARAMETER	VALUE
Output channels	32
IOTA configuration	Redundant
Companion module	8C-PDODA1

PARAMETER	VALUE
Output supply	24 Vdc
Channel groups	4 groups of 8

TECHNICAL NOTE

Confirm both output modules, redundant IOTA seating, group fuses and field-supply polarity before enabling the 32-channel bank.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Redundant solenoid outputs

Terminates thirty-two source outputs

Motor-control command banks

Supports redundant output modules

Critical valve manifold control

Groups channels in protected banks

High-availability package I/O

Distributes 24 Vdc field power

PRODUCT PRECAUTIONS

- 1 Verify the complete 8C-TDODB1 marking and its assigned Experion Series 8 I/O position before work.
- 2 Isolate the applicable power and field energy before disconnecting 8C-TDODB1.
- 3 Protect 8C-TDODB1 connectors and electronic assemblies with approved ESD controls.
- 4 Record the installed wiring, channel assignment and configuration before replacement.
- 5 Match Two 8C-PDODA1 modules and 24 Vdc user supply to the documented system arrangement.
- 6 Commission 8C-TDODB1 with controlled status, signal and diagnostic checks.
- 7 Retain the final redundant solenoid outputs functional-test result in the maintenance record.

ENGINEER FAQ

Q1 Does 8C-TDODB1 match Two 8C-PDODA1 modules in a Redundant solenoid outputs installation?

Verify the complete 8C-TDODB1 marking, the documented Experion Series 8 I/O position and the installed Two 8C-PDODA1 modules before fitting the assembly.

Q2 How should 8C-TDODB1 be wired when it must terminates thirty-two source outputs?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 8C-TDODB1; then continuity-test the affected path.

Q3 Which Experion Series 8 I/O records should be captured before removing 8C-TDODB1?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 8C-TDODB1 before disconnection.

Q4 What controlled test confirms that 8C-TDODB1 can supports redundant output modules?

Apply the approved field or simulated stimulus, observe the Experion Series 8 I/O indication and confirm the intended response without bypassing the normal interlocks.

Q5 Which 24 Vdc user supply condition should be checked when 8C-TDODB1 reports an abnormal state?

Check the 24 Vdc user supply supply, seating and connection first, then compare channel diagnostics with the recorded 8C-TDODB1 baseline.

Q6 Can 8C-TDODB1 be moved directly into Motor-control command banks without validating Protected discrete loads?

No. Confirm the Protected discrete loads, revision, connection scheme and Experion Series 8 I/O configuration before transferring 8C-TDODB1 to that duty.

Q7 What maintenance evidence is required after 8C-TDODB1 is used for Critical valve manifold control?

Retain the nameplate record, corrective action, final diagnostics and a controlled critical valve manifold control functional-test result for 8C-TDODB1.

Q8 How should 8C-TDODB1 be returned to service in High-availability package I/O?

Restore power under control, verify groups channels in protected banks, exercise the intended signal path and release 8C-TDODB1 only after the Experion Series 8 I/O remains in its approved operating state.

SOURCE Honeywell Series 8 Digital Output Specification | Series 8 DO 24 Vdc

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