

8C-TDOD51

Thirty-Two-Channel Digital Output IOTA

Honeywell 8C-TDOD51 is a 32-channel Series 8 digital output IOTA. It terminates field wiring and connects digital loads to the matched output module.

PRODUCT SNAPSHOT

BRAND

Honeywell

FAMILY

Experion Series 8 I/O

PART

8C-TDOD51

ORIGIN / HS

USA / 8537101190

APTER POWER SALES TEAM

WHATSAPP / PHONE

+86 180 3023 5313

EMAIL

sales13@apterpower.com

WEBSITE

www.apterpower.com



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PRODUCT OVERVIEW

Honeywell 8C-TDOD51 is a 32-channel Series 8 digital output IOTA. It terminates field wiring and connects digital loads to the matched output module.

1

Terminates digital output field circuits

2

Pairs with a Series 8 output module

3

Routes field power and output commands

4

Supports redundant output arrangements

SYSTEM COMPONENTS

Series 8 digital output module

Series 8 carrier

Field power supply

Protected discrete loads

TECHNICAL DATA

PARAMETER	VALUE
Output channels	32
Signal type	Digital output

PARAMETER	VALUE
Module arrangement	Series 8 IOTA

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TECHNICAL NOTE

Confirm the matched module, field-supply polarity and protected load bank before seating the module and testing each output.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Solenoid-valve manifolds

Terminates digital output field circuits

Motor-control command banks

Pairs with a Series 8 output module

Alarm annunciator outputs

Routes field power and output commands

Package-unit interlocks

Supports redundant output arrangements

PRODUCT PRECAUTIONS

- 1 Verify the complete 8C-TDOD51 marking and the assigned Experion Series 8 I/O position before field work.
- 2 Isolate the applicable power, network and field energy before disconnecting 8C-TDOD51.
- 3 Use ESD controls and protect the keyed connectors of 8C-TDOD51 during handling.
- 4 Record the installed wiring, jumpers, node or channel assignment before replacement.
- 5 Confirm Series 8 digital output module and Series 8 carrier against the approved system configuration.
- 6 Restore 8C-TDOD51 under controlled conditions and review the product-specific diagnostics.
- 7 Complete a functional test for solenoid-valve manifolds before production release.

ENGINEER FAQ

Q1 Which Series 8 digital output module identity must be verified before fitting the 8C-TDOD51 Thirty-Two-Channel Digital Output IOTA?

Match the complete 8C-TDOD51 marking, assigned Experion Series 8 I/O position and installed Series 8 digital output module before work.

Q2 How should Series 8 carrier be isolated before disconnecting the 8C-TDOD51 Thirty-Two-Channel Digital Output IOTA?

Place the affected process in its approved maintenance state, isolate applicable energy and prove Series 8 carrier safe before disconnection.

Q3 What as-found wiring record is required for the 8C-TDOD51 Thirty-Two-Channel Digital Output IOTA in Solenoid-valve manifolds?

Record terminal identity, polarity, shields, jumpers, cable tags and the as-found diagnostic state for 8C-TDOD51.

Q4 Which Experion Series 8 I/O configuration must be checked when commissioning the 8C-TDOD51 Thirty-Two-Channel Digital Output IOTA?

Verify the assigned channel, slot, node or interface and compare it with the approved Experion Series 8 I/O configuration before enabling 8C-TDOD51.

Q5 How can the 8C-TDOD51 Thirty-Two-Channel Digital Output IOTA be function-tested for Motor-control command banks without disturbing the process?

Use a controlled stimulus or limited command, observe the expected system indication and confirm the intended response while normal interlocks remain effective.

Q6 Which diagnostics should be reviewed if the 8C-TDOD51 Thirty-Two-Channel Digital Output IOTA stops performing its assigned system function?

Check seating, the matched Series 8 digital output module, the condition of Series 8 carrier and the model-specific diagnostics before replacing more hardware.

Q7 Can the 8C-TDOD51 Thirty-Two-Channel Digital Output IOTA used for Alarm annunciator outputs be transferred to another Experion Series 8 I/O position without engineering review?

No. Confirm the hardware execution, connector scheme and approved Experion Series 8 I/O configuration before transferring 8C-TDOD51 to a different duty.

Q8 What evidence should be retained after the 8C-TDOD51 Thirty-Two-Channel Digital Output IOTA returns to Package-unit interlocks service?

Retain the physical identification, as-left wiring or configuration, final diagnostics and controlled functional-test result for 8C-TDOD51.

SOURCE Honeywell PlantCruise Series 8 I/O Specification | Series 8 controller and I/O table

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