

INDUSTRIAL AUTOMATION PRODUCT

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.

IDENTITY	VERIFIED VALUE
Manufacturer	Honeywell
System family	Experion Series 8 I/O
Part number	51307151-175
Country	USA
HS code	8537101190

APTER POWER SALES TEAM

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8C-TDODB1

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Technical Specifications

Technical values below are limited to the named Honeywell product record.

PARAMETER	TECHNICAL VALUE
Output channels	32
IOTA configuration	Redundant
Companion module	8C-PDODA1
Output supply	24 Vdc
Channel groups	4 groups of 8

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System Role and Architecture

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

FUNCTION 1

Terminates thirty-two source outputs

FUNCTION 2

Supports redundant output modules

FUNCTION 3

Groups channels in protected banks

FUNCTION 4

Distributes 24 Vdc field power

Matched system components

- Two 8C-PDODA1 modules
- 24 Vdc user supply
- Series 8 carrier
- Protected discrete loads

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Applications and Engineering Context

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

TECHNICAL NOTE

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

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Engineering 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.

MANUFACTURER SOURCE RECORD

Honeywell Series 8 Digital Output Specification

Series 8 DO 24 Vdc

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