

APTER POWER ENGINEERING REFERENCE

8C-TDODA1

Series 8 Digital Output IOTA

The 8C-TDODA1 is the coated nine-inch nonredundant IOTA that carries the 8C-PDODA1 module, terminates thirty-two 24 Vdc source outputs and organizes their four fuse-protected banks.

Parameter	Technical value
Manufacturer	Honeywell
Product model	8C-TDODA1
Part number	51307149-175
System family	Experion Series 8 I/O
Document	Installation & Application Guide
Country	USA
HS code	8537101190

APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

One verified model, one engineered configuration path.

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SCAN FOR PRODUCT & QUOTE

8C-TDODA1

2. Installation Planning

The 8C-TDODA1 is the coated nine-inch nonredundant IOTA that carries the 8C-PDODA1 module, terminates thirty-two 24 Vdc source outputs and organizes their four fuse-protected banks.

Pre-installation sequence

- Install only in a nonredundant PDODA1 arrangement.
- Label the four eight-channel fuse banks.
- Verify bus-power polarity before module insertion.
- Torque and inspect all field terminals before load testing.

Matched components

- 8C-PDODA1 output module
- 24 Vdc user field supply
- Nine-inch Series 8 mounting position
- Field terminal and fuse accessories

3. Wiring and Interface Checks

Installation item	Required technical value
IOTA model	8C-TDODA1
Part number	51307149-175
Arrangement	Nonredundant
Coating	Conformally coated
Width	9 inch
Compatible module	8C-PDODA1
Output channels	32
Voltage class	24 Vdc
Output type	Source
Fuse groups	4; one fuse per 8 channels

Interface controls

- Use only the 8C-TDODA1 hardware identity and the matched components listed for this product.
- Record wiring, polarity, addressing or channel allocation before disturbing installed conductors.
- Keep field circuits de-energized until continuity and insulation checks are complete.
- Apply the product-specific limits in the table during loop or channel testing.

4. Commissioning and Functional Test

- 1 Confirm that 8C-TDODA1 and part number 51307149-175 match the cabinet record.
- 2 Verify the connection to 8C-PDODA1 output module before applying operating power.
- 3 Check the product function: terminates field wiring for the pdoda1 output module.
- 4 Simulate or apply a controlled signal for nonredundant solenoid-output panels.
- 5 Compare the channel indication or output state with the control database.
- 6 Record baseline values and restore the field circuit to its operating configuration.

5. Diagnostics and Return to Service

Product-specific diagnostic questions

How should an engineer verify nine-inch footprint on 8C-TDODA1?

Use the 8C-TDODA1 technical limit or configuration stated for nine-inch footprint, then verify it at the installed channel before service.

What must be checked for nonredundant arrangement on 8C-TDODA1?

Treat nonredundant arrangement as a product-specific commissioning point and compare the field condition with the Honeywell hardware configuration.

Which system detail controls PDODA1 mating on 8C-TDODA1?

The required check concerns PDODA1 mating; confirm the connected hardware is the matched component listed for 8C-TDODA1.

Why is it important to confirm four fuse-bank labels on 8C-TDODA1?

For four fuse-bank labels, isolate the circuit, record its present configuration and apply the stated Honeywell limit before re-energization.

RETURN-TO-SERVICE CHECK

Confirm model 8C-TDODA1, cabinet wiring, control-system channel assignment and the intended field response before releasing the equipment for production.