

APTER POWER ENGINEERING REFERENCE

8C-PDODA1

Series 8 24 Vdc Digital Output Module

The 8C-PDODA1 is a coated 32-channel Series 8 source-output module that switches 24 Vdc loads through four protected channel groups and a matched TDODA/TDODB IOTA.

Parameter	Technical value
Manufacturer	Honeywell
Product model	8C-PDODA1
Part number	51454472-175
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-PDODA1

2. Installation Planning

The 8C-PDODA1 is a coated 32-channel Series 8 source-output module that switches 24 Vdc loads through four protected channel groups and a matched TDODA/TDODB IOTA.

Pre-installation sequence

- Keep each eight-channel fuse group within its load plan.
- Use the IOTA required by the redundancy architecture.
- Check inrush current as well as steady-state load.
- Prove isolation and field polarity before enabling outputs.

Matched components

- 8C-TDODA1 nonredundant IOTA
- 8C-TDODB1 redundant IOTA
- 24 Vdc user field supply
- Protected dc field loads

3. Wiring and Interface Checks

Installation item	Required technical value
Module model	8C-PDODA1
Part number	51454472-175
Output channels	32
Output type	Source
Voltage rating	24 Vdc
Module current	105 mA
Maximum load voltage	30 Vdc
Maximum channel current	100 mA
Fuse groups	4; one fuse per 8 channels
System-to-field isolation	1000 Vac rms with user field power

Interface controls

- Use only the 8C-PDODA1 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-PDODA1 and part number 51454472-175 match the cabinet record.
- 2 Verify the connection to 8C-TDODA1 nonredundant IOTA before applying operating power.
- 3 Check the product function: sources 24 vdc commands to discrete field loads.
- 4 Simulate or apply a controlled signal for relay and interposing-solenoid banks.
- 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 100 mA channel ceiling on 8C-PDODA1?

Use the 8C-PDODA1 technical limit or configuration stated for 100 mA channel ceiling, then verify it at the installed channel before service.

What must be checked for four fuse groups on 8C-PDODA1?

Treat four fuse groups as a product-specific commissioning point and compare the field condition with the Honeywell hardware configuration.

Which system detail controls TDODA1 versus TDODB1 on 8C-PDODA1?

The required check concerns TDODA1 versus TDODB1; confirm the connected hardware is the matched component listed for 8C-PDODA1.

Why is it important to confirm 105 mA module load on 8C-PDODA1?

For 105 mA module load, isolate the circuit, record its present configuration and apply the stated Honeywell limit before re-energization.

RETURN-TO-SERVICE CHECK

Confirm model 8C-PDODA1, cabinet wiring, control-system channel assignment and the intended field response before releasing the equipment for production.