

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	Product Technical Reference
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

1. Product Identity and System Role

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.

System role

- Sources 24 Vdc commands to discrete field loads
- Groups output protection across eight-channel banks
- Provides field isolation when user power is applied
- Executes fast on/off control from Series 8 logic

Matched components

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

2. Technical Specifications

Parameter	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
On-state voltage	24 V typical at 0.1 A
Off-state leakage	5 uA maximum
Turn-on / turn-off	10 ms maximum
Operating temperature	0 to 60 C
Storage temperature	-40 to 85 C

3. Functions, Applications and Components

Core functions

- Sources 24 Vdc commands to discrete field loads
- Groups output protection across eight-channel banks
- Provides field isolation when user power is applied
- Executes fast on/off control from Series 8 logic

Industrial applications

- Relay and interposing-solenoid banks
- Motor-control center commands
- Valve manifold outputs
- Packaged equipment permissives

Compatible system components

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

4. Engineering Precautions and Source

Product precautions

- 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.

Manufacturer source

Honeywell Series 8 Controller and I/O Specification
S803-150-110

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.