

APTER POWER ENGINEERING REFERENCE

8C-PDOD51

Series 8 Field-Isolated Digital Output Module

The 8C-PDOD51 is a coated 32-channel Series 8 digital-output module that switches 24 Vdc field loads and supports latched, pulsed and PWM control with channel fault-option behavior.

Parameter	Technical value
Manufacturer	Honeywell
Product model	8C-PDOD51
Part number	51454361-175
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-PDOD51

1. Product Identity and System Role

The 8C-PDOD51 is a coated 32-channel Series 8 digital-output module that switches 24 Vdc field loads and supports latched, pulsed and PWM control with channel fault-option behavior.

System role

- Switches discrete field loads from Series 8 control logic
- Provides isolated bussed output architecture
- Supports latched, pulse and pulse-width-modulated channel behavior
- Applies engineered hold-last or shed-safe fault handling

Matched components

- 8C-TDOD51 or 8C-TDOD61 IOTA
- 24 Vdc field supply
- Series 8 controller database
- Field load and protective device

2. Technical Specifications

Parameter	Technical value
Module model	8C-PDOD51
Part number	51454361-175
Output type	24 Vdc field-isolated bussed output
Channels	32
IOTA, nonredundant	8C-TDOD51; 9 inch
IOTA, redundant	8C-TDOD61; 12 inch
Output modes	Latched; pulsed; PWM
FAILOPT actions	Hold last value; shed to safe value
Field power	Internal or external
Country	USA
HS code	8537101190

3. Functions, Applications and Components

Core functions

- Switches discrete field loads from Series 8 control logic
- Provides isolated bussed output architecture
- Supports latched, pulse and pulse-width-modulated channel behavior
- Applies engineered hold-last or shed-safe fault handling

Industrial applications

- Solenoid and relay outputs
- Motor starter interfaces
- Pulse-driven dosing equipment
- PWM actuator or heater commands

Compatible system components

- 8C-TDOD51 or 8C-TDOD61 IOTA
- 24 Vdc field supply
- Series 8 controller database
- Field load and protective device

4. Engineering Precautions and Source

Product precautions

- Configure FAILOPT for each final element before download.
- Confirm IOTA choice matches the redundancy design.
- Separate internally and externally powered groups as engineered.
- Test pulse and PWM timing with the real field load isolated.

Manufacturer source

Honeywell Series 8 I/O Specification - Digital Output 24 Vdc
Series 8 DO

RETURN-TO-SERVICE CHECK

Confirm model 8C-PDOD51, cabinet wiring, control-system channel assignment and the intended field response before releasing the equipment for production.