CC-PDOB01 51405043-176

Digital Output Module

Honeywell CC-PDOB01 51405043-176 is a 32-channel bussed 24 Vdc source digital output module for Experion Series C I/O.

PRODUCT SNAPSHOT

BRAND	Honeywell
FAMILY	Experion Series C I/O
PART	51405043-176
PRODUCT TYPE	Digital Output Module

APTER POWER SALES TEAM

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PRODUCT OVERVIEW

Honeywell CC-PDOB01 51405043-176 is a 32-channel bussed 24 Vdc source digital output module for Experion Series C I/O.

1. Provides thirty-two bussed 24 Vdc source outputs.
2. Drives solenoids, relays and other discrete process loads.
3. Supports nonredundant or redundant Series C IOTA arrangements.
4. Applies channel diagnostics, safe-state behavior and electronic short protection.

SYSTEM COMPONENTS

- CC-TDOB01 nonredundant IOTA
- CC-TDOB11 redundant IOTA
- 24 Vdc field supply
- Protected discrete field loads

TECHNICAL NOTE

Check group and module current limits together. FAILOPT behavior must match the approved process safe state before field power is restored.

TECHNICAL DATA

PARAMETER	VALUE
Output channels	32
Output type	Bussed 24 Vdc source
IOM model	CC-PDOB01
Part number	51405043-176
Nonredundant IOTA	CC-TDOB01
Redundant IOTA	CC-TDOB11
Maximum load voltage	30 Vdc

PARAMETER	VALUE
Per-channel load	0.5 A
Group limit	4 A per 8 channels; no short
Module limit	6 A
Galvanic isolation	1500 Vac RMS or +/-1500 Vdc
Short protection	Electronic; fuse-less
Safe behavior	FAILOPT hold or safe value

ENGINEERING NOTE

Check group and module current limits together. FAILOPT behavior must match the approved process safe state before field power is restored.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Honeywell MC-TDOR62	TPS relay-output termination	**View Honeywell MC-TDOR62 page**
Honeywell MC-TPIX12 51304084-175	TPS pulse-input termination	**View Honeywell MC-TPIX12 51304084-175 page**
Honeywell MC-TSIM12 51303932-476	TPS serial-interface termination	**View Honeywell MC-TSIM12 51303932-476 page**
Honeywell MC-TAOY25 51305865-275	TPS analog-output termination	**View Honeywell MC-TAOY25 51305865-275 page**
Honeywell DC-TFB412	Series C redundant FIM IOTA	**View Honeywell DC-TFB412 page**
Honeywell MC-IOLX02	TPS remote I/O link extender	**View Honeywell MC-IOLX02 page**
Honeywell 10002/1/2	FSC control and I/O module	**View Honeywell 10002/1/2 page**
Honeywell 10014/F/F	FSC communication module	**View Honeywell 10014/F/F page**

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Solenoid valve outputs

Provides thirty-two bussed 24 Vdc source outputs.

Interposing relay commands

Drives solenoids, relays and other discrete process loads.

Motor starter control

Supports nonredundant or redundant Series C IOTA arrangements.

Redundant discrete actuation

Applies channel diagnostics, safe-state behavior and electronic short protection.

PRODUCT PRECAUTIONS

1. Confirm CC-PDOB01 and part 51405043-176.
2. Record all 32 channel, group and load assignments.
3. Place field outputs in their approved safe state.
4. Isolate bussed 24 Vdc power before module work.
5. Verify CC-TDOB01 or CC-TDOB11 matches the intended redundancy.
6. Check group and module current limits before energization.
7. Test configured FAILOPT and short-circuit diagnostics.
8. Retain the witnessed output and redundancy acceptance record.

ENGINEER FAQ

Q1 How many outputs are provided by Honeywell CC-PDOB01 51405043-176?

The module provides thirty-two bussed 24 Vdc source outputs.

Q2 Which IOTAs pair with Honeywell CC-PDOB01 51405043-176?

CC-TDOB01 is the nonredundant IOTA and CC-TDOB11 is the redundant IOTA.

Q3 What per-channel current applies to Honeywell CC-PDOB01 51405043-176?

The Series-C specification lists 0.5 A per channel under the documented conditions.

Q4 What group and module limits apply to Honeywell CC-PDOB01 51405043-176?

Without a short, the limits are 4 A per group of eight and 6 A per module.

Q5 How does Honeywell CC-PDOB01 51405043-176 protect shorted outputs?

It uses electronic fuse-less short-circuit protection.

Q6 Which safe-state options are documented for Honeywell CC-PDOB01 51405043-176?

FAILOPT can be configured to hold the last value or drive the selected safe value.

Q7 What isolation is documented for Honeywell CC-PDOB01 51405043-176?

The specification lists 1500 Vac RMS or plus/minus 1500 Vdc galvanic isolation.

Q8 What completes commissioning of Honeywell CC-PDOB01 51405043-176?

Prove output direction, load current, diagnostics, FAILOPT behavior and redundancy where fitted.

SOURCE Honeywell Experion Series-C I/O Specification | EP03-490-520 Version 1.5

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