

INDUSTRIAL AUTOMATION PRODUCT

CC-PDIL01 51405040-176

CC-PDIL01 24 VDC Discrete Input Module

Honeywell CC-PDIL01 51405040-176 is a 32-channel Series C 24 VDC discrete input module. It supports galvanic isolation, optional redundancy, open-wire diagnostics and internal or external field excitation with the documented IOTA.

CONTROLLED ENGINEERING COPY

IDENTITY	VERIFIED VALUE
Manufacturer	Honeywell
System family	Experion PKS Series C I/O
Part number	CC-PDIL01 51405040-176
Document status	Controlled product and system reference

DOCUMENT SCOPE

Exact article identity, official technical data, host matching, installation checks, applications, precautions and controlled acceptance evidence.

MODEL-SPECIFIC ENGINEERING NOTE

Install CC-PDIL01 51405040-176 only in the documented Experion PKS Series C I/O position and preserve its exact wiring, interfaces and configuration. After controlled energization, verify diagnostics and acquisition and supervision of thirty-two 24 VDC discrete inputs before release.

System Role and Architecture

Honeywell CC-PDIL01 51405040-176 is a 32-channel Series C 24 VDC discrete input module. It supports galvanic isolation, optional redundancy, open-wire diagnostics and internal or external field excitation with the documented IOTA.

FUNCTION 1
Thirty-two 24 VDC inputs

FUNCTION 2
Galvanic isolation

FUNCTION 3
Open-wire detection

FUNCTION 4
Optional redundancy and configurable field excitation

RELATED APTER POWER PAGES

1 Siemens A5E36717793

2 Siemens A5E00297630

3 Siemens A5E36717808

4 Siemens A5E36717803

5 Siemens C98043-A1682-L1

6 Siemens 6SE7036-1EE85-1HA0

7 Siemens 6SE7037-0EJ84-1JC2

8 Siemens 6SE7041-8EK85-1MA0

9 Siemens 6SE7041-8GK85-0LA0

MATCHED SYSTEM COMPONENTS

NO.	DOCUMENTED COMPONENT / ROLE
01	Experion PKS Series C I/O
02	Matched Experion PKS Series C I/O host and field interface
03	Documented power, signal, communication and grounding connections
04	Approved configuration, diagnostics and acceptance record

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	Experion PKS Series C I/O
Interface role	acquisition and supervision of thirty-two 24 VDC discrete inputs
Field / power context	documented Experion PKS Series C I/O installed position
Commissioning evidence	Identity, wiring, configuration, diagnostics and controlled response recorded

INSTALLATION AND CONNECTION CHECKS

1 Confirm CC-PDIL01 and item number 51405040-176 on the module record.

2 Place all thirty-two input loops in the approved maintenance state.

3 Record channel assignments, normal states, excitation source and redundancy status.

4 Isolate Series C and field power before disconnection.

Technical Specifications

Technical values below are limited to the named product record and directly applicable manufacturer documentation.

PARAMETER	VALUE	PARAMETER	VALUE
Product type	24 VDC discrete input module	Field resistance OFF	At least 30 kohm at 30 V
Module model	CC-PDIL01	Isolation	1500 V AC RMS or +/-1500 V DC, optical
Manufacturer item number	51405040-176	Redundancy	Optional
I/O family	Experion PKS Series C I/O	Field excitation	Internal or external
Channels	32 discrete inputs	Indication	Direct or reverse
Field voltage	18-30 V DC	Diagnostics	Open-wire and module/channel diagnostics
ON state	At least 13 V or 3 mA	Non-redundant IOTA	CC-TDIL01
OFF state	No more than 5 V or 1.2 mA	Redundant IOTA	CC-TDIL11
Input impedance	4.2 kohm	Galvanically isolated IOTA options	CC-GDIL01, CC-GDIL11 and CC-GDIL21
Input delay	5 ms +/-20%	Safety IOTA option	CC-SDXX01 where documented
Field resistance ON	No more than 300 ohm at 15 V		

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6 Siemens 6SE7036-1EE85-1HA0

ENGINEERING BOUNDARY

Confirm CC-PDIL01 51405040-176, its exact host, installed position, interfaces, configuration, diagnostics and controlled acceptance evidence before release.

PRE-INSTALLATION CHECKS

- 1

Confirm CC-PDIL01 and item number 51405040-176 on the module record.
- 2

Place all thirty-two input loops in the approved maintenance state.
- 3

Record channel assignments, normal states, excitation source and redundancy status.
- 4

Isolate Series C and field power before disconnection.

Applications and Engineering Context

Process contact monitoring

Acquires documented 24 VDC field states for Experion control.

Redundant digital input

Uses the approved redundant IOTA and peer-module configuration.

Galvanically isolated input

Supports the documented isolated IOTA execution.

Series C replacement

Restores polarity, indication, excitation and channel diagnostics.

TECHNICAL NOTE

Install CC-PDIL01 51405040-176 only in the documented Experion PKS Series C I/O position and preserve its exact wiring, interfaces and configuration. After controlled energization, verify diagnostics and acquisition and supervision of thirty-two 24 VDC discrete inputs before release.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	CC-PDIL01 51405040-176 recorded
Host / carrier	Experion PKS Series C I/O
Physical interface	Installed terminals, ports and signals matched to the as-found record
Configuration	Approved Honeywell hardware and system configuration restored
Functional proof	Controlled test confirms acquisition and supervision of thirty-two 24 VDC discrete inputs

IMPORTANT NOTICE

Confirm CC-PDIL01 51405040-176, its exact host, installed position, interfaces, configuration, diagnostics and controlled acceptance evidence before release.

Related Products and Source Record

Brand-qualified Apter Power navigation links are provided for system planning only; manufacturer evidence remains the named source record.

RELATED PRODUCTS ON APTER POWER

1

Siemens A5E36717793

View Siemens A5E36717793 page

2

Siemens A5E00297630

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Siemens A5E36717808

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Siemens 6SE7037-0EJ84-1JC2

View Siemens 6SE7037-0EJ84-1JC2 page

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Siemens 6SE7041-8EK85-1MA0

View Siemens 6SE7041-8EK85-1MA0 page

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Siemens 6SE7041-8GK85-0LA0

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MANUFACTURER SOURCE RECORD

Honeywell Series C I/O Specification EP03-490-520, Version 1.5 | Official Honeywell manufacturer publication

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RECOMMENDATION SCOPE

These links support product navigation and comparison. Technical values in this document are sourced only from the manufacturer record above.