

CC-PDIH01

High-Voltage Digital Input Module

Optically isolated high-voltage AC or DC discrete-input states

PRODUCT SNAPSHOT

BRAND

Honeywell

FAMILY

Experion Series-C I/O

PART

CC-PDIH01

ORIGIN / HS

USA / 8537101190

APTER POWER SALES TEAM

WHATSAPP / PHONE

+86 180 3023 5313

EMAIL

sales13@apterpower.com

WEBSITE

www.apterpower.com



PRODUCT OVERVIEW

Optically isolated high-voltage AC or DC discrete-input states

1

Scans thirty-two high-voltage digital inputs

2

Supports documented 120 V AC, 125 V DC or 240 V AC IOTAs

3

Optically isolates field states from module electronics

4

Applies IOTA-specific pickup, dropout and delay thresholds

SYSTEM COMPONENTS

selected CC-TDI high-voltage IOTA

AC or DC discrete field circuits

Series-C carrier

Experion input configuration

TECHNICAL NOTE

Identify the exact CC-TDI IOTA and field voltage before work; preserve input commons and confirm every pickup/dropout state at the documented threshold.

TECHNICAL DATA

PARAMETER	VALUE
Input channels	32
Input isolation	1500 V AC rms or +/-1500 V DC
Isolation method	Optical
Supported nominal inputs	120 V AC; 125 V DC; 240 V AC
120 V AC input range	90 to 132 V AC
125 V DC input range	100 to 138 V DC
240 V AC input range	180 to 264 V AC
AC frequency	47 to 63 Hz

PARAMETER	VALUE
CC-TDI151 pickup/dropout	90 V AC / 20 V AC
CC-TDI151 delay	25 ms
CC-TDI110/120 pickup	90 V AC / 100 V DC
CC-TDI110/120 dropout	25 V AC / 25 V DC
CC-TDI110/120 delay	25 ms AC / 10 ms DC
CC-TDI220/230 pickup/dropout	180 V AC / 50 V AC
CC-TDI220/230 delay	25 ms

ENGINEERING NOTE

Identify the exact CC-TDI IOTA and field voltage before work; preserve input commons and confirm every pickup/dropout state at the documented threshold.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
EX-DGM506	Related industrial automation product	View EX-DGM506 page
EP-COAS19	Related industrial automation product	View EP-COAS19 page
C7027A1049	Related industrial automation product	View C7027A1049 page
TERM-0001	Related industrial automation product	View TERM-0001 page
51202901-500	Related industrial automation product	View 51202901-500 page
10018-U-1	Related industrial automation product	View 10018-U-1 page
10008-U	Related industrial automation product	View 10008-U page
MMX-10M	Related industrial automation product	View MMX-10M page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Motor-starter status monitoring

Scans thirty-two high-voltage digital inputs

High-voltage interlock acquisition

Supports documented 120 V AC, 125 V DC or 240 V AC IOTAs

AC proximity-switch input

Optically isolates field states from module electronics

Digital-input module renewal

Applies IOTA-specific pickup, dropout and delay thresholds

PRODUCT PRECAUTIONS

- 1 Verify the complete CC-PDIH01 marking and its assigned high-voltage digital-input position before work.
- 2 Place the connected process and control strategy in the approved maintenance state.
- 3 Isolate the applicable cabinet supply and high-voltage discrete field energy before disconnecting conductors.
- 4 Record terminal numbers, channel assignments, polarity, shields and configured ranges before removal.
- 5 Use ESD controls and protect the backplane connector, terminal hardware and coated electronics.
- 6 Confirm the installed selected CC-TDI IOTA and carrier arrangement against the approved project.
- 7 Restore power in a controlled sequence and clear only diagnostics created by the maintenance activity.
- 8 Complete controlled pickup, dropout and channel-state tests and retain the measured result before returning the channel to automatic service.

ENGINEER FAQ

Q1 Does CC-PDIH01 match selected CC-TDI high-voltage IOTA in a Motor-starter status monitoring installation?

Verify the complete CC-PDIH01 marking, the documented Experion Series-C I/O position and the installed selected CC-TDI high-voltage IOTA before fitting the assembly.

Q2 How should CC-PDIH01 be wired when it must scans thirty-two high-voltage digital inputs?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for CC-PDIH01; then continuity-test the affected path.

Q3 Which Experion Series-C I/O records should be captured before removing CC-PDIH01?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with CC-PDIH01 before disconnection.

Q4 What controlled test confirms that CC-PDIH01 can supports documented 120 v ac, 125 v dc or 240 v ac iotas?

Apply the approved field or simulated stimulus, observe the Experion Series-C I/O indication and confirm the intended response without bypassing the normal interlocks.

Q5 Which AC or DC discrete field circuits condition should be checked when CC-PDIH01 reports an abnormal state?

Check the AC or DC discrete field circuits supply, seating and connection first, then compare channel diagnostics with the recorded CC-PDIH01 baseline.

Q6 Can CC-PDIH01 be moved directly into High-voltage interlock acquisition without validating Experion input configuration?

No. Confirm the Experion input configuration, revision, connection scheme and Experion Series-C I/O configuration before transferring CC-PDIH01 to that duty.

Q7 What maintenance evidence is required after CC-PDIH01 is used for AC proximity-switch input?

Retain the nameplate record, corrective action, final diagnostics and a controlled ac proximity-switch input functional-test result for CC-PDIH01.

Q8 How should CC-PDIH01 be returned to service in Digital-input module renewal?

Restore power under control, verify optically isolates field states from module electronics, exercise the intended signal path and release CC-PDIH01 only after the Experion Series-C I/O remains in its approved operating state.

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

+86 180 3023 5313 | sales13@apterpower.com | www.apterpower.com