APTER POWER

PRODUCT TECHNICAL REFERENCE

INDUSTRIAL AUTOMATION PRODUCT

CC-PDIH01

High-Voltage Digital Input Module

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

IDENTITY	VERIFIED VALUE
Manufacturer	Honeywell
System family	Experion Series-C I/O
Part number	CC-PDIH01
Country	USA
HS code	8537101190

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2 Technical Specifications

Technical values below are limited to the named Honeywell product record.

PARAMETER	TECHNICAL 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
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

3 System Role and Architecture

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

FUNCTION 1

Scans thirty-two high-voltage digital inputs

FUNCTION 2

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

FUNCTION 3

Optically isolates field states from module electronics

FUNCTION 4

Applies IOTA-specific pickup, dropout and delay thresholds

Matched system components

- selected CC-TDI high-voltage IOTA
- AC or DC discrete field circuits
- Series-C carrier
- Experion input configuration

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	selected CC-TDI high-voltage IOTA
Companion hardware	AC or DC discrete field circuits
Field connection	Series-C carrier
Primary system function	Scans thirty-two high-voltage digital inputs
Controlled acceptance duty	Motor-starter status monitoring

4 Applications and Engineering Context

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

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.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	CC-PDIH01 / CC-PDIH01 recorded
Physical interface	selected CC-TDI high-voltage IOTA
Companion check	AC or DC discrete field circuits
Functional proof	Scans thirty-two high-voltage digital inputs
Application test	Motor-starter status monitoring

5 Engineering 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.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
CSNK500M-600	Related industrial automation product	View CSNK500M-600 page
CC-PSV201-51454123-175	Related industrial automation product	View CC-PSV201-51454123-175 page
CC-TSV211-51306665-175	Related industrial automation product	View CC-TSV211-51306665-175 page
FS-TPSU-2430-V1-1	Related industrial automation product	View FS-TPSU-2430-V1-1 page
51401469-100	Related industrial automation product	View 51401469-100 page
51305896-100	Related industrial automation product	View 51305896-100 page
CC-PPIX01-51410089-175	Related industrial automation product	View CC-PPIX01-51410089-175 page
K4LCN-8-51401551-801	Related industrial automation product	View K4LCN-8-51401551-801 page

MANUFACTURER SOURCE RECORD

Honeywell Experion Series-C I/O Specification

EP03-490-520, Release 520, Version 1.5

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