APTER POWER

PRODUCT TECHNICAL REFERENCE

INDUSTRIAL AUTOMATION PRODUCT

CC-TDIL01

Thirty-Two-Point 24 V DC Digital Input IOTA

Thirty-two optically isolated 24 V DC discrete-input connections

IDENTITY	VERIFIED VALUE
Manufacturer	Honeywell
System family	Experion Series-C I/O
Part number	CC-TDIL01
Country	USA
HS code	8537101190

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com

2 Technical Specifications

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

PARAMETER	TECHNICAL VALUE
IOTA type	Digital input; 24 V DC; nonredundant
Channels	32
Physical size	9 in
Compatible modules	CC-PDIL01; CC-PDIS01 SOE
Field power	18 to 30 V DC
Input isolation	1500 V AC rms or +/-1500 V DC
Isolation method	Optical
ON state	>=13 V DC or >=3 mA
OFF state	<=5 V DC or <=1.2 mA
Input impedance	4.2 kOhm
Input delay	5 ms +/-20%
Guaranteed ON field resistance	300 Ohm maximum at 15 V
Guaranteed OFF field resistance	30 kOhm minimum at 30 V
Normal scan	20 ms
Fast scan	5 ms
SOE resolution	1 ms

3 System Role and Architecture

Thirty-two optically isolated 24 V DC discrete-input connections

FUNCTION 1

Terminates thirty-two 24 V DC input circuits

FUNCTION 2

Supports normal or fast digital-input scanning

FUNCTION 3

Pairs with the CC-PDIS01 sequence-of-events processor

FUNCTION 4

Provides one-millisecond SOE timestamp resolution when configured

Matched system components

- CC-PDIL01 or CC-PDIS01 input module
- 18 to 30 V DC field supply
- two-state field devices
- Series-C carrier and project

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	CC-PDIL01 or CC-PDIS01 input module
Companion hardware	18 to 30 V DC field supply
Field connection	two-state field devices
Primary system function	Terminates thirty-two 24 V DC input circuits
Controlled acceptance duty	Process interlock input termination

4 Applications and Engineering Context

Process interlock input termination

Terminates thirty-two 24 V DC input circuits

Sequence-of-events capture

Supports normal or fast digital-input scanning

Fast discrete status scanning

Pairs with the CC-PDIS01 sequence-of-events processor

Digital-input IOTA renewal

Provides one-millisecond SOE timestamp resolution when configured

TECHNICAL NOTE

Match the installed PDIL/PDIS processor, preserve every input common and field conductor, then prove ON/OFF thresholds and SOE time synchronization where used.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	CC-TDIL01 / CC-TDIL01 recorded
Physical interface	CC-PDIL01 or CC-PDIS01 input module
Companion check	18 to 30 V DC field supply
Functional proof	Terminates thirty-two 24 V DC input circuits
Application test	Process interlock input termination

5 Engineering Precautions

1. Verify the complete CC-TDIL01 marking and its assigned thirty-two-point digital-input IOTA position before work.
2. Place the connected process and control strategy in the approved maintenance state.
3. Isolate the applicable cabinet supply and 24 V 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
MC-TAIH02-51304453-150	Related industrial automation product	View MC-TAIH02-51304453-150 page
IC752SPL013	Related industrial automation product	View IC752SPL013 page
KJ2005X1-SQ1-12P6383X022	Related industrial automation product	View KJ2005X1-SQ1-12P6383X022 page
3500-05-01-01-01-00-01	Related industrial automation product	View 3500-05-01-01-01-00-01 page
330180-X1-00-MOD-145004-09	Related industrial automation product	View 330180-X1-00-MOD-145004-09 page
A5E00296878	Related industrial automation product	View A5E00296878 page
A5E34612879	Related industrial automation product	View A5E34612879 page
A5E00825002	Related industrial automation product	View A5E00825002 page

MANUFACTURER SOURCE RECORD

Honeywell Experion Series-C I/O Specification

EP03-490-520, Release 520, Version 1.5

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