CC-TDIL01

Thirty-Two-Point 24 V DC Digital Input IOTA

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

PRODUCT SNAPSHOT

BRAND
Honeywell

FAMILY
Experion Series-C I/O

PART
CC-TDIL01

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PRODUCT OVERVIEW

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

1. Terminates thirty-two 24 V DC input circuits
2. Supports normal or fast digital-input scanning
3. Pairs with the CC-PDIS01 sequence-of-events processor
4. Provides one-millisecond SOE timestamp resolution when configured

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

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.

TECHNICAL DATA

PARAMETER	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

PARAMETER	VALUE
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

ENGINEERING 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.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
330854-080-05	Related industrial automation product	**View 330854-080-05 page**
330851-02-000-080-10-00-00	Related industrial automation product	**View 330851-02-000-080-10-00-00 page**
330851-01-000-020-10-00-00	Related industrial automation product	**View 330851-01-000-020-10-00-00 page**
330850-91-05	Related industrial automation product	**View 330850-91-05 page**
330876-01-50-01-05	Related industrial automation product	**View 330876-01-50-01-05 page**
330876-03-10-00-00	Related industrial automation product	**View 330876-03-10-00-00 page**
32000-28-05-15-080-03-02	Related industrial automation product	**View 32000-28-05-15-080-03-02 page**
32000-28-05-08-080-03-02	Related industrial automation product	**View 32000-28-05-08-080-03-02 page**

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

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

PRODUCT 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.
6. Confirm the installed CC-PDIL01 or CC-PDIS01 module 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 channel transition and SOE timestamp verification and retain the measured result before returning the channel to automatic service.

ENGINEER FAQ

Q1 Does CC-TDIL01 match CC-PDIL01 or CC-PDIS01 input module in a Process interlock input termination installation?

Verify the complete CC-TDIL01 marking, the documented Experion Series-C I/O position and the installed CC-PDIL01 or CC-PDIS01 input module before fitting the assembly.

Q2 How should CC-TDIL01 be wired when it must terminates thirty-two 24 v dc input circuits?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for CC-TDIL01; then continuity-test the affected path.

Q3 Which Experion Series-C I/O records should be captured before removing CC-TDIL01?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with CC-TDIL01 before disconnection.

Q4 What controlled test confirms that CC-TDIL01 can supports normal or fast digital-input scanning?

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 18 to 30 V DC field supply condition should be checked when CC-TDIL01 reports an abnormal state?

Check the 18 to 30 V DC field supply supply, seating and connection first, then compare channel diagnostics with the recorded CC-TDIL01 baseline.

Q6 Can CC-TDIL01 be moved directly into Sequence-of-events capture without validating Series-C carrier and project?

No. Confirm the Series-C carrier and project, revision, connection scheme and Experion Series-C I/O configuration before transferring CC-TDIL01 to that duty.

Q7 What maintenance evidence is required after CC-TDIL01 is used for Fast discrete status scanning?

Retain the nameplate record, corrective action, final diagnostics and a controlled fast discrete status scanning functional-test result for CC-TDIL01.

Q8 How should CC-TDIL01 be returned to service in Digital-input IOTA renewal?

Restore power under control, verify pairs with the cc-pdis01 sequence-of-events processor, exercise the intended signal path and release CC-TDIL01 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

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