CC-TDIL01

Thirty-Two-Point 24 V DC Digital Input IOTA

CONTROLLED ENGINEERING COPY

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

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	CC-TDIL01
Manufacturer part	CC-TDIL01
Hardware type	Digital input; 24 V DC; nonredundant
System family	Experion Series-C I/O

1 PLAN — 2 ISOLATE — 3 CONNECT — 4 CONFIGURE — 5 TEST

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com

01 PRE-INSTALLATION PLAN

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.

MATCHED HARDWARE

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

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
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

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED 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

FIELD 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.

03 COMMISSIONING WORKFLOW

1. Confirm CC-TDIL01 and part number CC-TDIL01 against the installed record.
2. Verify the physical connection to CC-PDIL01 or CC-PDIS01 input module.
3. Apply the documented technical values for iota type.
4. Exercise the function: terminates thirty-two 24 v dc input circuits.
5. Run a controlled test for process interlock input termination.
6. Record the final state, diagnostics and operator acceptance before release.

COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	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

04 RETURN-TO-SERVICE RECORD

- [ ] Confirm the installed CC-PDIL01 or CC-PDIS01 module and carrier arrangement against the approved project.
- [ ] Restore power in a controlled sequence and clear only diagnostics created by the maintenance activity.
- [ ] Complete channel transition and SOE timestamp verification and retain the measured result before returning the channel to automatic service.
- [ ] Confirm the intended process response before normal operation.

VERIFICATION RECORD

PRODUCT IDENTITY	CC-TDIL01
INSTALLED POSITION	Documented Experion Series-C I/O position
VERIFICATION METHOD	Controlled inspection and functional test
RELEASE RECORD	Final diagnostic state retained before service

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
A5E00755411	Related industrial automation product	View A5E00755411 page
A5E00297628	Related industrial automation product	View A5E00297628 page
A5E03915589	Related industrial automation product	View A5E03915589 page
A5E36228241	Related industrial automation product	View A5E36228241 page
A5E00282044	Related industrial automation product	View A5E00282044 page
330901-00-90-10-02-05-953416	Related industrial automation product	View 330901-00-90-10-02-05-953416 page
330330-080-01-00	Related industrial automation product	View 330330-080-01-00 page
330330-070-00-00	Related industrial automation product	View 330330-070-00-00 page

SOURCE IDENTIFIERS

Honeywell Experion Series-C I/O Specification

EP03-490-520, Release 520, Version 1.5

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