8C-TCNTA1

C300 Controller IOTA

CONTROLLED ENGINEERING COPY

Verify the installed PCNT03/PCNT05 controller, 24 V power cable, I/O-link connectors and redundancy cable before inserting the controller and restoring node service.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	8C-TCNTA1
Manufacturer part	8C-TCNTA1
Hardware type	C300 controller IOTA; coated
System family	Experion PKS C300

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

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01 PRE-INSTALLATION PLAN

1. Verify the complete 8C-TCNTA1 marking and its assigned C300 controller-IOTA position before work.
2. Place the connected process and control strategy in the approved maintenance state.
3. Isolate the applicable cabinet supply and controller 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

- 8C-PCNT03 or 8C-PCNT05 C300
- Series 8 power cable
- controller/IOTA cable
- redundancy cable where configured

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	8C-TCNTA1 / 8C-TCNTA1 recorded
Physical interface	8C-PCNT03 or 8C-PCNT05 C300
Companion check	Series 8 power cable
Functional proof	Mounts the C300 controller on its Series 8 termination base
Application test	C300 controller installation

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Assembly type	C300 controller IOTA; coated
Compatible controller	8C-PCNT03 and 8C-PCNT05
Supply	24 V DC via Series 8 power cables
IOTA dimensions	220 x 120 mm
Redundancy cable	51305980-836
Controller memory backup	51454475-100
Controller cable	51202330-300; 0.7 m
Controller cable option	51202330-200; 2 m
Insertion/removal under power	Supported
Coating	G3; ANSI/ISA S71.04-1985

FIELD NOTE

Verify the installed PCNT03/PCNT05 controller, 24 V power cable, I/O-link connectors and redundancy cable before inserting the controller and restoring node service.

03 COMMISSIONING WORKFLOW

1. Confirm 8C-TCNTA1 and part number 8C-TCNTA1 against the installed record.
2. Verify the physical connection to 8C-PCNT03 or 8C-PCNT05 C300.
3. Apply the documented technical values for assembly type.
4. Exercise the function: mounts the c300 controller on its series 8 termination base.
5. Run a controlled test for c300 controller installation.
6. Record the final state, diagnostics and operator acceptance before release.

COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	8C-TCNTA1 / 8C-TCNTA1 recorded
Physical interface	8C-PCNT03 or 8C-PCNT05 C300
Companion check	Series 8 power cable
Functional proof	Mounts the C300 controller on its Series 8 termination base
Application test	C300 controller installation

04 RETURN-TO-SERVICE RECORD

- [ ] Confirm the installed 8C-PCNT03 or 8C-PCNT05 controller and carrier arrangement against the approved project.
- [ ] Restore power in a controlled sequence and clear only diagnostics created by the maintenance activity.
- [ ] Complete power, I/O-link and redundancy-cable continuity checks and retain the measured result before returning the channel to automatic service.
- [ ] Confirm the intended process response before normal operation.

VERIFICATION RECORD

PRODUCT IDENTITY	8C-TCNTA1
INSTALLED POSITION	Documented Experion PKS C300 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
FC-TSGAS-1624	Related industrial automation product	**View FC-TSGAS-1624 page**
FS-TSGAS-1624	Related industrial automation product	**View FS-TSGAS-1624 page**
FC-TERM-0002	Related industrial automation product	**View FC-TERM-0002 page**
FC-SSWM01-51306930-176	Related industrial automation product	**View FC-SSWM01-51306930-176 page**
FC-IOCHAS-0001S	Related industrial automation product	**View FC-IOCHAS-0001S page**
FC-IO-0001	Related industrial automation product	**View FC-IO-0001 page**
FTA-T-20	Related industrial automation product	**View FTA-T-20 page**
FC-QPP-0002-V2-0	Related industrial automation product	**View FC-QPP-0002-V2-0 page**

SOURCE IDENTIFIERS

Honeywell Series 8 Controller and I/O Specification

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