

INDUSTRIAL AUTOMATION PRODUCT

8C-TCNTA1

C300 Controller IOTA

C300 controller power, I/O-link and redundancy termination

IDENTITY	VERIFIED VALUE
Manufacturer	Honeywell
System family	Experion PKS C300
Part number	8C-TCNTA1
Country	USA
HS code	8537101190

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Technical Specifications

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

PARAMETER	TECHNICAL 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

ENGINEERING DATA SUMMARY

DATA GROUP	VERIFIED ASSIGNMENT
Installed host / carrier	8C-PCNT03 or 8C-PCNT05 C300
Companion hardware	Series 8 power cable
Field connection	controller/IOTA cable
Primary system function	Mounts the C300 controller on its Series 8 termination base
Controlled acceptance duty	C300 controller installation

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System Role and Architecture

C300 controller power, I/O-link and redundancy termination

FUNCTION 1

Mounts the C300 controller on its Series 8 termination base

FUNCTION 2

Accepts either PCNT03 or PCNT05 controller hardware

FUNCTION 3

Routes the controller supply and I/O-link connections

FUNCTION 4

Supports the documented redundancy-cable arrangement

Matched system components

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

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	8C-PCNT03 or 8C-PCNT05 C300
Companion hardware	Series 8 power cable
Field connection	controller/IOTA cable
Primary system function	Mounts the C300 controller on its Series 8 termination base
Controlled acceptance duty	C300 controller installation

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Applications and Engineering Context

C300 controller installation

Mounts the C300 controller on its Series 8 termination base

Redundant controller pairing

Accepts either PCNT03 or PCNT05 controller hardware

Series 8 cabinet wiring

Routes the controller supply and I/O-link connections

Controller-IOTA replacement

Supports the documented redundancy-cable arrangement

TECHNICAL 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.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	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

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Engineering Precautions

- 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.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
FX-USI-0002	Related industrial automation product	View FX-USI-0002 page
FS-PDC-MB24-1P	Related industrial automation product	View FS-PDC-MB24-1P page
FS-PDC-FTA24P	Related industrial automation product	View FS-PDC-FTA24P page
FS-MB-0002	Related industrial automation product	View FS-MB-0002 page
SPS6061-LF-FC-PSUNI2424-V1-0	Related industrial automation product	View SPS6061-LF-FC-PSUNI2424-V1-0 page
FC-QPP-0001-V1-3	Related industrial automation product	View FC-QPP-0001-V1-3 page
8C-PCNT03-51454363-375	Related industrial automation product	View 8C-PCNT03-51454363-375 page
FC-TSFIRE-1624	Related industrial automation product	View FC-TSFIRE-1624 page

MANUFACTURER SOURCE RECORD

Honeywell Series 8 Controller and I/O Specification
S803-150-530, May 2024

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