01 / Product and system dashboard

HONEYWELL

8C-TCNTA1 51307125-175

Controller Termination Assembly

Product role

Honeywell 8C-TCNTA1 51307125-175 is offered as a coated C300 I/O Termination Assembly for controller mounting and cabinet connections.

Cabinet cables
FTE / I/O / redundancy

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8C-TCNTA1
Passive termination base

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C300 module
Controller electronics

Engineering scope

Termination functions describe the 8C-TCNTA1 IOTA design. Retain assembly marking 51307125-175; controller processing capacity and network performance belong to the fitted controller and supported system release.

02 / Verified identity and technical relationships

Property	Applicable fact	Property	Applicable fact
Product family	Series 8 C300	Network connections	FTE connectors
Assembly function	Controller I/O Termination Assembly	I/O connections	I/O link 1 and redundant I/O link 2 paths
Construction	Passive termination base	Redundancy connection	Private controller communication path
Coating	Conformally coated 8C design	RAM-retention connection	Optional battery arrangement
Address setting	FTE address switches	Redundancy cable	51305980-836 for configured C300 pairs

Configuration boundary

Termination functions describe the 8C-TCNTA1 IOTA design. Retain assembly marking 51307125-175; controller processing capacity and network performance belong to the fitted controller and supported system release.

03 / Applications and system integration

Controller mounting

Provide the passive mounting and termination base for the configured Series 8 C300 controller.

Cabinet connection retention

Retain FTE, I/O-link and power connection identities while replacing the correct assembly.

Redundant node installation

Use matched controller and IOTA positions with the specified redundancy communication cable.

Controller migration planning

Check release support and controller-pair rules independently of the common IOTA designation.

Functional context

The C300 connection arrangement includes the FTE connectors, the two I/O-link paths, a private redundancy communication connection and a battery connection for optional RAM retention. The Series 8 cabinet power system supplies the controller through its cabling. During replacement, retain the address-switch setting and identify each network, redundancy and I/O-link connection before disconnection.

04 / Service and installation decisions

Preserve assembly identity

Compare 8C-TCNTA1 and 51307125-175 with the installed hardware marking.

Record FTE address

Record the address-switch setting and restore the correct node identity.

Label cable paths

Identify FTE, I/O link, redundancy and battery connections before removal.

Check controller pairing

Do not mix PCNT03 and PCNT05 as a redundant controller pair.

Isolate base wiring

Follow the cabinet isolation procedure before disconnecting or replacing the IOTA.

Verify the complete node

Confirm controller state, communications and redundancy after controlled reassembly.

05 / Reference basis and related portfolio

Lifecycle and supply

A current manufacturer lifecycle phase has not been confirmed. Request current support and replacement guidance using the complete 8C-TCNTA1 51307125-175 identity. Apter Power availability is confirmed separately in the quotation.

Reference basis

Honeywell Series 8 Controller and I/O Specification, S803-150-110 V1.2; S803-150-530 V1.0.

Apter Power technical summary; not a manufacturer-issued manual. Apply the original instructions for the actual installation.

Related industrial automation products

Navigation only; no substitution or compatibility claim.

Honeywell 51403988-150

Honeywell 10101/2/1

Honeywell 10100/2/1

Discuss your installed configuration

Send the full unit marking and connection details.

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