

Installation Identity and Scope

Honeywell 8C-TAIX51 is the coated non-redundant IOTA for a sixteen-channel Series 8 analog input module. It terminates 4-20 mA signals from 2-wire or self-powered transmitters for the documented 8C-PAIN01 arrangement.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	8C-TAIX51
Manufacturer	Honeywell
Hardware type	Analog Input IOTA
System family	Series 8 I/O
Official source	PC03-490-100, Release 100, October 2011, section 2.2 Analog Input

CONTROLLED ENGINEERING COPY

Use 8C-TAIX51 only in the documented non-redundant analog input position with 8C-PAIN01. Preserve channel wiring, loop power, shield and common assignments, then verify range, scan response and diagnostics for all enabled channels.

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8C-TAIX51

Pre-Installation Plan

NO.	REQUIRED ACTION
1	Verify the complete 8C-TAIX51 and 51306979-175 marking before work.
2	Confirm the associated I/O module is the documented Honeywell 8C-PAIN01.
3	Place all affected process loops in the approved maintenance state.
4	Record all sixteen single-ended channel assignments and loop-power sources.
5	Label signal, common, shield and grounding conductors before removal.

Matched Hardware

CONTROL ITEM	REQUIRED RECORD
Identity	8C-TAIX51
Physical interface	Documented Series 8 IOTA position and keyed IOM interface
Companion check	Approved 8C-PAIN01 companion module and field termination
Configuration	Saved channel map, signal configuration, diagnostics and maintenance record
Functional proof	Every enabled channel, module diagnostic and controlled system response

Related Honeywell Products

MODEL	APTER POWER PAGE
Honeywell FC-IO-0001	View Honeywell FC-IO-0001
Honeywell FC-IOCHAS-0001R	View Honeywell FC-IOCHAS-0001R
Honeywell FC-IOCHAS-0001S	View Honeywell FC-IOCHAS-0001S
Honeywell FC-PDB-0824	View Honeywell FC-PDB-0824
Honeywell FC-PSU-UNI2450U-V1-0	View Honeywell FC-PSU-UNI2450U-V1-0

Wiring and Interface Checks

CHECK	MODEL-SPECIFIC REQUIREMENT
Identity	Record Honeywell 8C-TAIX51 and item 51306979-175 exactly.
Companion module	Confirm the documented 8C-PAIN01 analog input module.
IOTA arrangement	Confirm the non-redundant coated IOTA position.
Channel map	Preserve all sixteen single-ended 4-20 mA input assignments.
Field wiring	Label loop power, signals, commons, shields and grounding.
Functional proof	Verify every input, 50 ms scan response and module diagnostic.

CONFIGURATION BOUNDARY

Use 8C-TAIX51 only in the documented non-redundant analog input position with 8C-PAIN01. Preserve channel wiring, loop power, shield and common assignments, then verify range, scan response and diagnostics for all enabled channels.

Expected Technical Values

PARAMETER	VALUE
Complete model	8C-TAIX51
Honeywell item number	51306979-175
IOTA role	Coated non-redundant analog input termination assembly
Compatible I/O module	8C-PAIN01

Related Honeywell Products

MODEL	APTER POWER PAGE
Honeywell FC-PSUNI2424-SPS6061-LF	View Honeywell FC-PSUNI2424-SPS6061-LF
Honeywell FC-QPP-0001-V1-3	View Honeywell FC-QPP-0001-V1-3

Commissioning and Acceptance

TEST	ACCEPTANCE CONDITION
Identity	Exact 8C-TAIX51 and 8C-PAIN01 pairing match the engineering record.
Configuration	All sixteen channel assignments and input settings are restored.
Loop check	Each 4-20 mA loop reproduces its approved controlled test value.
System proof	The non-redundant path and all diagnostics pass.

Model-Specific Questions

QUESTION	ENGINEERING ANSWER
Which module is paired with Honeywell 8C-TAIX51?	Honeywell specifies 8C-TAIX51 as the coated non-redundant IOTA for the 8C-PAIN01 analog input module.
How many channels does Honeywell 8C-TAIX51 terminate?	The official specification lists sixteen single-ended analog input channels.
Which signal range is specified for Honeywell 8C-TAIX51?	The documented input range is 4-20 mA through 200 ohms.
Which transmitter types can Honeywell 8C-TAIX51 receive?	The arrangement accepts current inputs from 2-wire or self-powered transmitters.

Related Honeywell Products

MODEL	APTER POWER PAGE
Honeywell FC-SAI-1620M	View Honeywell FC-SAI-1620M
Honeywell FC-SAO-022M	View Honeywell FC-SAO-022M
Honeywell FC-SDI-1624	View Honeywell FC-SDI-1624
Honeywell FC-SDO-0824	View Honeywell FC-SDO-0824
Honeywell FC-SDOL-0424	View Honeywell FC-SDOL-0424

FAQ, Source and Controlled Release

QUESTION	ENGINEERING ANSWER
What conversion resolution applies to Honeywell 8C-TAIX51?	The compatible analog input module uses a 16-bit A/D converter.
What scan rate applies to Honeywell 8C-TAIX51?	The Honeywell specification lists a 50 ms input scan rate.
Is Honeywell 8C-TAIX51 the redundant IOTA?	No. Honeywell identifies 8C-TAIX51 as the coated non-redundant IOTA; 8C-TAIX61 is the redundant version in the same documented family.
What proves Honeywell 8C-TAIX51 commissioning is complete?	The 8C-PAIN01 pairing, all sixteen loop assignments, 4-20 mA responses and diagnostics must agree with the approved record.

MANUFACTURER SOURCE RECORDS

PlantCruise by Experion Series 8 I/O Specification - PC03-490-100, Release 100, October 2011, section 2.2 Analog Input
Series 8 Controller and I/O Specification - S803-150-530, Version 1.0, May 2024, Series 8 architecture and I/O overview

Controlled Release Summary

RELEASE ITEM	REQUIRED EVIDENCE
Identity	8C-TAIX51 recorded
Interface	Connections and companion hardware verified
Configuration	Installed values agree with approved record
Functional proof	Controlled test completed without unexplained fault

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