

8C-TAIX61

Redundant AI IOTA

Honeywell 8C-TAIX61 is the coated redundant IOTA for the sixteen-channel Series 8 analog input module. It terminates 4-20 mA signals from 2-wire or self-powered transmitters and provides the documented redundant path for 8C-PAIN01.

BRAND	Honeywell	MODEL	8C-TAIX61
PRODUCT	Redundant AI IOTA	FAMILY	Series 8 I/O
OFFICIAL SOURCE	PlantCruise by Experion Series 8 I/O Specification	RECORD	PC03-490-100, Release 100, October 2011, section 2.2 Analog Input

DOCUMENT SCOPE

Official technical evidence, controlled engineering checks, model-specific FAQ and related product navigation.

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Product Overview and Applications

SYSTEM FUNCTION

Honeywell 8C-TAIX61 is the coated redundant IOTA for the sixteen-channel Series 8 analog input module. It terminates 4-20 mA signals from 2-wire or self-powered transmitters and provides the documented redundant path for 8C-PAIN01.

FUNCTION 1

Sixteen single-ended current inputs

FUNCTION 2

Redundant 4-20 mA input path

FUNCTION 3

Coated Series 8 IOTA

FUNCTION 4

Fast 50 ms input scan

APPLICATION	ENGINEERING CONTEXT
Redundant transmitter input	Terminates sixteen approved 4-20 mA transmitters through the documented redundant analog input arrangement.
High-availability measurement	Maintains paired Series 8 input paths for loops requiring controlled redundancy.
Self-powered loop acquisition	Accepts documented current signals from self-powered transmitters with preserved commons and shields.
Fast process monitoring	Supports the documented 50 ms scan response while both redundancy paths are supervised.

Technical Data and Acceptance

PARAMETER	VERIFIED VALUE
Complete model	8C-TAIX61
Honeywell item number	51306977-175
IOTA role	Coated redundant analog input termination assembly
Compatible I/O module	8C-PAIN01
Input type	Current; 2-wire or self-powered transmitters
Input channels	16 single-ended channels
A/D resolution	16 bits
Input range	4-20 mA through 200 ohms
Input scan rate	50 ms
Normal-mode rejection	19 dB at 60 Hz
Normal-mode filter	Single-pole RC, -3 dB at 6.5 Hz
Channel crosstalk	-60 dB, dc to 60 Hz
Maximum input voltage	+/-30 V referenced to common without damage

Acceptance Path

1 IDENTITY

Exact 8C-TAIX61 and 8C-PAIN01 pairing match the engineering record.

2 CONFIGURATION

All sixteen channel assignments and input settings are restored.

3 LOOP CHECK

Each 4-20 mA loop reproduces its approved controlled test value.

4 SYSTEM PROOF

Both paths and a controlled transfer pass.

Precautions and Model-Specific FAQ

NO.	PRECAUTION	QUESTION	ANSWER
1	Verify the complete 8C-TAIX61 and 51306977-175 marking before work.	Which module is paired with Honeywell 8C-TAIX61?	Honeywell specifies 8C-TAIX61 as the coated redundant IOTA for the 8C-PAIN01 analog input module.
2	Confirm the associated I/O modules and redundancy arrangement use the documented 8C-PAIN01 hardware.		
3	Place both redundant paths and affected process loops in the approved maintenance state.	How many channels does Honeywell 8C-TAIX61 terminate?	The documented arrangement supports sixteen single-ended analog input channels.
4	Record all sixteen single-ended channel assignments and both path identities.	Which current range is used by Honeywell 8C-TAIX61?	The official specification lists 4-20 mA through 200 ohms.
5	Label signal, common, shield, grounding and loop-power conductors before removal.		
6	Keep each applied signal within the documented 4-20 mA input arrangement.	What makes Honeywell 8C-TAIX61 different from 8C-TAIX51?	8C-TAIX61 is the coated redundant IOTA, while 8C-TAIX51 is the coated non-redundant IOTA.
7	Use approved ESD controls and inspect both IOTA and module interfaces.		
8	Verify every input, diagnostic indication and controlled redundancy transfer before release.		

FAQ, Related Products and Sources

QUESTION	ANSWER
What scan response is documented for Honeywell 8C-TAIX61?	The compatible analog input module uses a 50 ms input scan rate.
Which transmitters can Honeywell 8C-TAIX61 receive?	The input arrangement accepts current signals from 2-wire or self-powered transmitters.
What must be recorded before replacing Honeywell 8C-TAIX61?	Record both redundancy paths, all sixteen channel assignments, loop-power sources, commons, shields and diagnostics.
How is Honeywell 8C-TAIX61 redundancy accepted after installation?	Both paths must report healthy status, all inputs must reproduce their approved values and a controlled transfer must complete without unexplained fault.

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

Related Products on Apter Power

MODEL	APTER POWER PAGE
Honeywell FC-TSDI-1624	View Honeywell FC-TSDI-1624
Honeywell FC-DCOM-232-485	View Honeywell FC-DCOM-232-485
Honeywell FC-IOTA-R24-51306505-175	View Honeywell FC-IOTA-R24-51306505-175
Honeywell FC-MCAR-02	View Honeywell FC-MCAR-02
Honeywell FC-PDB-0824P	View Honeywell FC-PDB-0824P
Honeywell FC-PSU-240516-V1-1	View Honeywell FC-PSU-240516-V1-1
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