

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.

IDENTITY	VERIFIED VALUE
Manufacturer	Honeywell
Complete model	8C-TAIX61
Product role	Redundant AI IOTA
System family	Series 8 I/O
Source record	PC03-490-100, Release 100, October 2011, section 2.2 Analog Input

DOCUMENT SCOPE

Model identity, official technical data, model-specific applications, precautions, FAQ and controlled acceptance records.

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Technical Specifications

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

ENGINEERING BOUNDARY

Use 8C-TAIX61 only in the documented redundant analog input arrangement with 8C-PAIN01. Preserve both I/O paths, channel wiring, loop power, shields and commons, then verify every channel and the controlled redundancy transfer.

System Role and Common Applications

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.

ACCEPTANCE DUTY
Confirm identity, interface, companion hardware, configured values and controlled functional response before release.

Engineering Precautions and FAQ

NO.	PRECAUTION
1	Verify the complete 8C-TAIX61 and 51306977-175 marking before work.
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.
4	Record all sixteen single-ended channel assignments and both path identities.
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.
7	Use approved ESD controls and inspect both IOTA and module interfaces.
8	Verify every input, diagnostic indication and controlled redundancy transfer before release.

QUESTION	ANSWER
Which module is paired with Honeywell 8C-TAIX61?	Honeywell specifies 8C-TAIX61 as the coated redundant IOTA for the 8C-PAIN01 analog input module.
How many channels does Honeywell 8C-TAIX61 terminate?	The documented arrangement supports sixteen single-ended analog input channels.
Which current range is used by Honeywell 8C-TAIX61?	The official specification lists 4-20 mA through 200 ohms.
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.

FAQ, Related Products and Official 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.

MODEL	APTER POWER PAGE
Honeywell 8C-TAIDB1-51307133-175	View Honeywell 8C-TAIDB1-51307133-175
Honeywell 8C-TAIM01-51306999-175	View Honeywell 8C-TAIM01-51306999-175
Honeywell CC-PAON01-51410070-175	View Honeywell CC-PAON01-51410070-175
Honeywell CC-PCNT02-51454551-275	View Honeywell CC-PCNT02-51454551-275
Honeywell CC-PCNT05-51308592-176	View Honeywell CC-PCNT05-51308592-176
Honeywell CC-PDIL01-51405040-176	View Honeywell CC-PDIL01-51405040-176
Honeywell CC-PPIX01-51410089-175	View Honeywell CC-PPIX01-51410089-175
Honeywell CC-PSV201-51454123-175	View Honeywell CC-PSV201-51454123-175

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

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