

Installation Identity and Scope

Honeywell 8C-TAIM01 is the coated IOTA for the Series 8 low-level input multiplexer. With 8C-PAIM01 and the documented FTA, it supports isolated thermocouple or RTD acquisition across 64 channels.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	8C-TAIM01
Manufacturer	Honeywell
Hardware type	LL Mux IOTA
System family	Series 8 I/O
Official source	PC03-490-100, Release 100, October 2011, sections 2.1 and detailed specifications

CONTROLLED ENGINEERING COPY

Verify the 8C-PAIM01 module, selected thermocouple or RTD FTA, sixteen-channel group allocation and line-frequency setting. Preserve sensor type, lead compensation, cold-junction configuration and isolation boundaries during replacement.

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8C-TAIM01

Pre-Installation Plan

NO.	REQUIRED ACTION
1	Verify the complete 8C-TAIM01 and 51306999-175 marking before work.
2	Confirm the companion low-level multiplexer module is Honeywell 8C-PAIM01.
3	Identify every MC-TAMT04 thermocouple and MC-TAMR04 RTD FTA connection.
4	Record all sixty-four channel assignments in their sixteen-channel groups.
5	Preserve sensor type, polarity, lead compensation, shielding and isolation boundaries.

Matched Hardware

CONTROL ITEM	REQUIRED RECORD
Identity	8C-TAIM01
Physical interface	Documented Series 8 IOTA position and keyed IOM interface
Companion check	Approved 8C-PAIM01 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 CC-PDOD51-51454408-175	View Honeywell CC-PDOD51-51454408-175
Honeywell CC-PFB401-51405044-175	View Honeywell CC-PFB401-51405044-175
Honeywell CC-SCMB02	View Honeywell CC-SCMB02
Honeywell CC-SCMB05	View Honeywell CC-SCMB05
Honeywell CC-TAID11	View Honeywell CC-TAID11

Wiring and Interface Checks

CHECK	MODEL-SPECIFIC REQUIREMENT
Identity	Record Honeywell 8C-TAIM01 and item 51306999-175 exactly.
Companion module	Confirm the documented 8C-PAIM01 low-level multiplexer module.
FTA selection	Match MC-TAMT04 thermocouple and MC-TAMR04 RTD FTAs to the design.
Channel groups	Preserve all sixty-four channels in their sixteen-channel FTA groups.
Sensor configuration	Restore sensor type, polarity, compensation and 50/60 Hz integration.
Functional proof	Verify cold-junction, open-sensor diagnostics and every enabled channel.

CONFIGURATION BOUNDARY

Verify the 8C-PAIM01 module, selected thermocouple or RTD FTA, sixteen-channel group allocation and line-frequency setting. Preserve sensor type, lead compensation, cold-junction configuration and isolation boundaries during replacement.

Expected Technical Values

PARAMETER	VALUE
Complete model	8C-TAIM01
Honeywell item number	51306999-175
IOTA role	Coated low-level multiplexer termination assembly
Compatible I/O module	8C-PAIM01

Related Honeywell Products

MODEL	APTER POWER PAGE
Honeywell CC-TAIN01-51306513-175	View Honeywell CC-TAIN01-51306513-175
Honeywell CC-TAIX01-51308363-175	View Honeywell CC-TAIX01-51308363-175

Commissioning and Acceptance

TEST	ACCEPTANCE CONDITION
Identity	IOTA, 8C-PAIM01 and every FTA identity match the engineering record.
Configuration	All sensor types, channel groups and line-frequency settings are restored.
Isolation check	Sensor wiring and channel isolation boundaries match the approved topology.
Measurement proof	All enabled channels and open-sensor diagnostics pass controlled testing.

Model-Specific Questions

QUESTION	ENGINEERING ANSWER
Which I/O module is paired with Honeywell 8C-TAIM01?	Honeywell specifies 8C-TAIM01 as the coated IOTA for the 8C-PAIM01 low-level multiplexer module.
How many channels are supported by Honeywell 8C-TAIM01?	The documented arrangement supports sixty-four fully isolated input channels in sixteen-channel increments.
Which sensors can Honeywell 8C-TAIM01 receive?	It supports thermocouple and/or RTD inputs through the documented low-level multiplexer arrangement.
Which FTAs are used with Honeywell 8C-TAIM01?	Honeywell lists MC-TAMT04 for thermocouples and MC-TAMR04 for RTDs.

Related Honeywell Products

MODEL	APTER POWER PAGE
Honeywell CC-TAIX11	View Honeywell CC-TAIX11
Honeywell CC-TAIX61-51307077-175	View Honeywell CC-TAIX61-51307077-175
Honeywell CC-TAON01	View Honeywell CC-TAON01
Honeywell CC-TAOX01	View Honeywell CC-TAOX01
Honeywell CC-TAOX11	View Honeywell CC-TAOX11

FAQ, Source and Controlled Release

QUESTION	ENGINEERING ANSWER
What scan rate applies to Honeywell 8C-TAIM01?	The official specification states a fixed one-second scan, up to sixty-four channels per second.
What line-frequency setting is available for Honeywell 8C-TAIM01?	The low-level multiplexer provides a fixed selectable 50 Hz or 60 Hz line-frequency integration setting.
How does Honeywell 8C-TAIM01 handle an open thermocouple?	Each conversion is qualified by the documented open-thermocouple detection thresholds in the Honeywell specification.
What proves Honeywell 8C-TAIM01 commissioning is complete?	The module, IOTA and FTA identities must match, all channel and sensor assignments must be restored, and cold-junction, open-sensor and functional checks must pass.

MANUFACTURER SOURCE RECORDS

PlantCruise by Experion Series 8 I/O Specification - PC03-490-100, Release 100, October 2011, sections 2.1 and detailed specifications
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-TAIM01 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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