

Installation Identity and Scope

Honeywell 8C-TAOX61 is the coated redundant IOTA for a sixteen-channel Series 8 analog output module. With 8C-PAON01 it delivers 4-20 mA commands while supporting controlled redundancy, per-channel safe-state behavior and open-wire detection.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	8C-TAOX61
Manufacturer	Honeywell
Hardware type	Redundant AO IOTA
System family	Series 8 I/O
Official source	PC03-490-100, Release 100, October 2011, section 2.4 Analog Output

CONTROLLED ENGINEERING COPY

Use 8C-TAOX61 only in the documented redundant analog output arrangement with 8C-PAON01. Record both hardware paths, every FAILOPT action, safe value and final-element connection, then test all outputs and a controlled redundancy switchover.

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8C-TAOX61

Pre-Installation Plan

NO.	REQUIRED ACTION
1	Verify the complete 8C-TAOX61 and 51306981-175 marking before work.
2	Confirm both analog output paths use the documented Honeywell 8C-PAON01 hardware.
3	Place final elements and both redundant paths in approved safe states.
4	Record all sixteen output assignments, scaling values and paired path identities.
5	Record the FAILOPT choice and configured safe value for every enabled channel.

Matched Hardware

CONTROL ITEM	REQUIRED RECORD
Identity	8C-TAOX61
Physical interface	Documented Series 8 IOTA position and keyed IOM interface
Companion check	Approved 8C-PAON01 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 MC-TDID12-51304441-175	View Honeywell MC-TDID12-51304441-175
Honeywell MC-TDID52-51304441-275	View Honeywell MC-TDID52-51304441-275
Honeywell MC-TDIY22-51204160-175	View Honeywell MC-TDIY22-51204160-175
Honeywell MC-TDOY22-51204162-175	View Honeywell MC-TDOY22-51204162-175
Honeywell MC-TLPA02-51309204-175	View Honeywell MC-TLPA02-51309204-175

Wiring and Interface Checks

CHECK	MODEL-SPECIFIC REQUIREMENT
Identity	Record Honeywell 8C-TAOX61 and item 51306981-175 exactly.
Companion module	Confirm the documented 8C-PAON01 analog output module.
IOTA arrangement	Confirm the redundant coated IOTA position.
Channel map	Preserve all sixteen 4-20 mA output and final-element assignments.
Safe states	Restore every FAILOPT choice and configured safe value.
Functional proof	Verify commanded current, final-element response and open-wire diagnostics.

CONFIGURATION BOUNDARY

Use 8C-TAOX61 only in the documented redundant analog output arrangement with 8C-PAON01. Record both hardware paths, every FAILOPT action, safe value and final-element connection, then test all outputs and a controlled redundancy switchover.

Expected Technical Values

PARAMETER	VALUE
Complete model	8C-TAOX61
Honeywell item number	51306981-175
IOTA role	Coated redundant analog output termination assembly
Compatible I/O module	8C-PAON01

Related Honeywell Products

MODEL	APTER POWER PAGE
Honeywell MC-TPIX12-51304084-175	View Honeywell MC-TPIX12-51304084-175
Honeywell MC-TSIM12-51303932-476	View Honeywell MC-TSIM12-51303932-476

Commissioning and Acceptance

TEST	ACCEPTANCE CONDITION
Identity	Exact 8C-TAOX61 and 8C-PAON01 pairing match the engineering record.
Configuration	All output assignments, scaling and FAILOPT values are restored.
Output check	Each commanded current and final-element response meets its approved record.
System proof	Both paths and a controlled switchover pass.

Model-Specific Questions

QUESTION	ENGINEERING ANSWER
Which module is paired with Honeywell 8C-TAOX61?	Honeywell specifies 8C-TAOX61 as the coated redundant IOTA for the 8C-PAON01 analog output module.
How many outputs does Honeywell 8C-TAOX61 terminate?	The documented arrangement supports sixteen analog output channels.
Which output range is used by Honeywell 8C-TAOX61?	The official specification lists 4-20 mA output, with direct setting at 0 mA or from 2.9 to 21.1 mA.
What redundancy transfer limit is documented for Honeywell 8C-TAOX61?	The specification lists a maximum 10 ms output-to-field gap at 0 mA during switchover.

Related Honeywell Products

MODEL	APTER POWER PAGE
Honeywell MC-TSTX03	View Honeywell MC-TSTX03
Honeywell MC-TSTX03-51309140-175	View Honeywell MC-TSTX03-51309140-175
Honeywell MC-TSTX13	View Honeywell MC-TSTX13
Honeywell MU-FOED02-51197564-200	View Honeywell MU-FOED02-51197564-200
Honeywell MU-KBFT02	View Honeywell MU-KBFT02

FAQ, Source and Controlled Release

QUESTION	ENGINEERING ANSWER
Which FAILOPT actions are available for Honeywell 8C-TAOX61?	Each channel can HOLD LAST VALUE or SHED to a configured SAFE VALUE.
How does Honeywell 8C-TAOX61 identify an open field wire?	The Series 8 function reports the condition with a Channel Soft Failure indication.
What must be recorded before replacing Honeywell 8C-TAOX61?	Record both redundant paths, all output assignments, scaling, FAILOPT settings, safe values and field wiring.
How is Honeywell 8C-TAOX61 commissioning accepted?	Both paths must be healthy, all commanded outputs and safe-state actions must pass, and a controlled switchover must meet the approved response criteria.

MANUFACTURER SOURCE RECORDS

PlantCruise by Experion Series 8 I/O Specification - PC03-490-100, Release 100, October 2011, section 2.4 Analog Output
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-TAOX61 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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