

Honeywell 8C-TAOXA1 51307135-175

Analog Output IOTA

Product scope

- Terminates sixteen controlled 4–20 mA loops for a Series 8 analog output module.
- Provides open-wire supervision and configurable output handling during fault conditions.
- Uses the coated, non-redundant six-inch IOTA construction identified by the full part number.

Manufacturer source

Exact-model technical record

Verified model-specific overview, function, operating principle, applications and technical data.

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Analog Output IOTA

Product overview

Honeywell 8C-TAOXA1 51307135-175 is a coated, non-redundant six-inch IOTA for the Series 8 high-level analog output module. It terminates sixteen 4–20 mA channels and supports open-wire diagnostics and configured safe-state behavior.

8C-TAOXA1 51307135-175 is the non-redundant coated termination assembly used with the 8C-PAOHA1 analog output electronics. Its field terminals distribute 24 V loop power and connect sixteen current-output circuits in a compact Series 8 footprint.

Each channel generates a regulated 4–20 mA control signal for valves, positioners or other analog final elements. Channel diagnostics can detect an open field wire, while control-system settings define hold-last-value or shed-to-safe behavior.

The IOTA cannot replace the output electronics by itself and must be matched to the designated Series 8 module. Loop resistance, available compliance, grounding and non-redundant architecture should be confirmed against the existing cabinet design.

Technical specifications

Output channels	16
Signal range	4 to 20 mA
Direct output range	2.9 to 21.1 mA
Loop supply	24 V DC
Permitted loop supply	22 to 28 V DC
Load resistance	50 to 800 Ω
Maximum compliance voltage	16 V
Output ripple	Less than 100 mV peak-to-peak across 250 Ω
Accuracy at 25 °C	$\pm 0.2\%$ of full scale
Resolution	$\pm 0.05\%$
Linearity	$\pm 0.05\%$
Temperature drift	0.005% of full scale per °C
Module current	205 mA
Open-wire detection	Supported
Failure handling	Configurable hold-last-value or shed to safe state
IOTA size	6 inch
Redundancy	Non-redundant
Conformal coating	Coated
Matched electronics	8C-PAOHA1

8C-TAOXA1 51307135-175 function and operating principle

Ordered configuration

The ordering configuration is a coated termination assembly and does not include the 8C-PAOHA1 electronics.

System role

It routes regulated analog commands from the C300 I/O subsystem to sixteen field-control loops.

Selection and installation

Channel load, loop power and safe-state requirements should be recorded before moving wires from the existing IOTA.

Functional path

- Terminates sixteen controlled 4–20 mA loops for a Series 8 analog output module.
- Provides open-wire supervision and configurable output handling during fault conditions.
- Uses the coated, non-redundant six-inch IOTA construction identified by the full part number.

Application scenarios

- Process units use the outputs to position control valves and variable actuators from Experion control strategies.
- Package systems can send isolated current commands to drives or converters that accept standard analog references.
- Maintenance cabinets use open-wire indication to identify a disconnected loop before loss of regulation causes a process upset.

8C-TAOXA1 51307135-175 engineering checks

Monitoring & Control

- Sixteen independent current commands are controlled through the paired analog output electronics.
- Open-wire supervision identifies a field circuit that cannot maintain the commanded loop.
- Fault behavior can retain the last value or move the channel to a configured safe state.

Diagnostics & Protection

- The direct 2.9 to 21.1 mA range gives the system margin for underrange and overrange diagnostics.
- Loop loading must remain inside the 50 to 800 ohm window for proper compliance.
- Coated construction supports use in the documented industrial cabinet environment.

Compatibility

- The termination assembly is designed for the Series 8 8C-PAOHA1 high-level analog output module.
- Its six-inch non-redundant format must match the existing carrier and cabinet layout.
- Control-system configuration must assign the correct channel type and safe-state behavior to all connected loops.

Critical technical note

Pair 8C-TAOXA1 51307135-175 only with the designated Series 8 analog output electronics and verify every loop load before transfer.

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