

8C-TDILA1 51307141-175

8C-TDILA1 24 VDC Digital Input IOTA

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PRODUCT SNAPSHOT

BRAND
Honeywell

FAMILY
Honeywell Experion Series 8 I/O

PART
8C-TDILA1 51307141-175

DOCUMENT STATUS
Controlled engineering copy

APTER POWER

WHATSAPP / PHONE

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WEBSITE

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PRODUCT OVERVIEW

Honeywell 8C-TDILA1 51307141-175 provides field termination for thirty-two 24 VDC discrete input channels in a documented Honeywell Experion Series 8 I/O installation.

Channels: 32

Voltage class: 24 VDC

Field supply range: 18-30 VDC

Execution: Coated

RELATED APTER POWER PAGES		
1 Honeywell 8C-PAOH51 51454355-175	2 Honeywell 8C-TAIMA1 51307171-175	3 Honeywell 8C-TAOXA1 51307135-175
4 Honeywell 51401496-100	5 Honeywell 51401642-150	6 Honeywell 621-2200RC
7 Honeywell MC-PAOX03 51309152-175	8 Honeywell MC-TAIH12 51304337-150	9 Honeywell MC-TAOX12 51304335-175

SYSTEM COMPONENTS

DOCUMENTED COMPONENT	ROLE IN SYSTEM
Proximity probe	Matched extension cable
Proximitor Sensor	AISI 4140 target

ENGINEERING CONTEXT

The component remains matched to its installed host, interface hardware and engineering configuration. Commissioning restores that architecture and verifies the intended function under controlled conditions.

TECHNICAL DATA

PARAMETER	VALUE
Product type	24 VDC Digital Input I/O Termination Assembly
IOTA model	8C-TDILA1
Manufacturer item number	51307141-175
Channels	32
Voltage class	24 VDC

PARAMETER	VALUE
Field supply range	18-30 VDC
Execution	Coated
Redundancy form	Non-redundant A1 IOTA
Isolation	System-to-field isolation implemented in the matched

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Honeywell MC-TAOX12 51304335-175

TECHNICAL NOTE

Install 8C-TDILA1 51307141-175 only in its documented Honeywell Experion Series 8 I/O position. Preserve the exact interfaces, wiring and configuration, then verify diagnostics and field termination for thirty-two 24 VDC discrete input channels under controlled conditions.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

8C-TDILA1 24 VDC Digital Input IOTA

Provides field termination for thirty-two 24 VDC discrete input channels in the approved Honeywell

Installed-system maintenance

Preserves the documented slot, termination, wiring and configuration during replacement.

Controlled commissioning

Restores power and signals in the approved sequence and reviews diagnostics.

Acceptance verification

Confirms the intended channel, network or safety function before release.

PRODUCT PRECAUTIONS

1

Confirm the complete 8C-TDILA1 51307141-175 identity on the hardware and maintenance record.

2

Place the affected Honeywell Experion Series 8 I/O process in the approved maintenance state.

3

Record the installed position, connectors, terminals, wiring and configuration before removal.

4

Isolate all documented power and field energy and apply ESD controls where required.

5

Inspect the replacement identity, revision, interfaces and mating hardware before installation.

6

Restore every conductor, cable, power path and configuration value to the approved record.

7

Review host, module, channel or network diagnostics after controlled energization.

8

Perform a controlled test that proves field termination for thirty-two 24 VDC discrete input channels before

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ENGINEER FAQ

Q1 Which field signals connect to 8C-TDILA1 51307141-175?

It terminates 24 VDC discrete input signals.

Q2 How many inputs are wired through 8C-TDILA1 51307141-175?

The assembly provides thirty-two input channels.

Q3 Which field-supply range applies to 8C-TDILA1 51307141-175?

The documented DI supply range is 18 to 30 VDC.

Q4 Is 8C-TDILA1 51307141-175 coated or uncoated?

It is the coated 8C execution.

Q5 Does 8C-TDILA1 51307141-175 provide a redundant IOTA position?

No. A1 identifies the non-redundant termination form.

Q6 Where is galvanic separation implemented for 8C-TDILA1 51307141-175?

The matched Series 8 input module provides the system-to-field isolation.

Q7 What must be known before disconnecting 8C-TDILA1 51307141-175?

Record channel labels, expected normal states, field supply, commons and any pulse-input use.

Q8 Which field test releases 8C-TDILA1 51307141-175?

Operate every assigned contact and confirm the expected state, timing and diagnostics at the controller.

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SOURCE Honeywell Experion Series 8 I/O Specification | Honeywell manufacturer publication

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