

INDUSTRIAL AUTOMATION PRODUCT

8C-TDILA1 51307141-175

8C-TDILA1 24 VDC Digital Input IOTA

Honeywell 8C-TDILA1 51307141-175 is the 8C-TDILA1 24 VDC Digital Input IOTA used for field termination for thirty-two 24 VDC discrete input channels in a documented Honeywell Experion Series 8 I/O installation. Confirm the complete identity and installed system configuration before replacement.

CONTROLLED ENGINEERING COPY

IDENTITY	VERIFIED VALUE
Manufacturer	Honeywell
System family	Honeywell Experion Series 8 I/O
Part number	8C-TDILA1 51307141-175
Document status	Controlled product and system reference

DOCUMENT SCOPE

Exact article identity, official technical data, host matching, installation checks, applications, precautions and controlled acceptance evidence.

MODEL-SPECIFIC ENGINEERING 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.

System Role and Architecture

Honeywell 8C-TDILA1 51307141-175 is the 8C-TDILA1 24 VDC Digital Input IOTA used for field termination for thirty-two 24 VDC discrete input channels in a documented Honeywell Experion Series 8 I/O installation. Confirm the complete identity and installed system configuration before replacement.

FUNCTION 1
Channels: 32

FUNCTION 2
Voltage class: 24 VDC

FUNCTION 3
Field supply range: 18-30 VDC

FUNCTION 4
Execution: Coated

RELATED APTER POWER PAGES

1Honeywell 8C-PAOH51 51454355-175

2Honeywell 8C-TAIMA1 51307171-175

3Honeywell 8C-TAOXA1 51307135-175

4Honeywell 51401496-100

5Honeywell 51401642-150

6Honeywell 621-2200RC

7Honeywell MC-PAOX03 51309152-175

8Honeywell MC-TAIH12 51304337-150

9Honeywell MC-TAOX12 51304335-175

MATCHED SYSTEM COMPONENTS

NO.	DOCUMENTED COMPONENT / ROLE
01	Honeywell Experion Series 8 I/O
02	Matched Honeywell Experion Series 8 I/O host and field interface
03	Documented power, signal, communication and grounding connections
04	Approved configuration, diagnostics and acceptance record

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	Honeywell Experion Series 8 I/O
Interface role	field termination for thirty-two 24 VDC discrete input channels
Field / power context	documented Honeywell Experion Series 8 I/O installed position
Commissioning evidence	Identity, wiring, configuration, diagnostics and controlled response recorded

INSTALLATION AND CONNECTION CHECKS

1Confirm the complete 8C-TDILA1 51307141-175 identity on the hardware and maintenance record.

2Place the affected Honeywell Experion Series 8 I/O process in the approved maintenance state.

3Record the installed position, connectors, terminals, wiring and configuration before removal.

4Isolate all documented power and field energy and apply ESD controls where required.

Technical Specifications

Technical values below are limited to the named product record and directly applicable manufacturer documentation.

PARAMETER	VALUE	PARAMETER	VALUE
Product type	24 VDC Digital Input I/O Termination Assembly	Field supply range	18-30 VDC
IOTA model	8C-TDILA1	Execution	Coated
Manufacturer item number	51307141-175	Redundancy form	Non-redundant A1 IOTA
Channels	32	Isolation	System-to-field isolation implemented in the matched
Voltage class	24 VDC		

RELATED PRODUCT 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

ENGINEERING BOUNDARY

Confirm 8C-TDILA1 51307141-175, its exact host, installed position, interfaces, configuration, diagnostics and controlled acceptance evidence before release.

PRE-INSTALLATION CHECKS

- 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.

Applications and Engineering Context

8C-TDILA1 24 VDC Digital Input IOTA

Provides field termination for thirty-two 24 VDC discrete input channels in the approved Honeywell Experion Series 8 I/O architecture.

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.

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.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	8C-TDILA1 51307141-175 recorded
Host / carrier	Honeywell Experion Series 8 I/O
Physical interface	Installed terminals, ports and signals matched to the as-found record
Configuration	Approved Honeywell hardware and system configuration restored
Functional proof	Controlled test confirms field termination for thirty-two 24 VDC discrete input channels

IMPORTANT NOTICE

Confirm 8C-TDILA1 51307141-175, its exact host, installed position, interfaces, configuration, diagnostics and controlled acceptance evidence before release.

Related Products and Source Record

Brand-qualified Apter Power navigation links are provided for system planning only; manufacturer evidence remains the named source record.

RELATED PRODUCTS ON APTER POWER

1

Honeywell 8C-PAOH51 51454355-175

View Honeywell 8C-PAOH51 51454355-175 page

2

Honeywell 8C-TAIMA1 51307171-175

View Honeywell 8C-TAIMA1 51307171-175 page

3

Honeywell 8C-TAOXA1 51307135-175

View Honeywell 8C-TAOXA1 51307135-175 page

4

Honeywell 51401496-100

View Honeywell 51401496-100 page

5

Honeywell 51401642-150

View Honeywell 51401642-150 page

6

Honeywell 621-2200RC

View Honeywell 621-2200RC page

7

Honeywell MC-PAOX03 51309152-175

View Honeywell MC-PAOX03 51309152-175 page

8

Honeywell MC-TAIH12 51304337-150

View Honeywell MC-TAIH12 51304337-150 page

9

Honeywell MC-TAOX12 51304335-175

View Honeywell MC-TAOX12 51304335-175 page

MANUFACTURER SOURCE RECORD

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

APTER POWER SALES TEAM

WHATSAPP / PHONE

+86 180 3023 5313

EMAIL

sales13@apterpower.com

WEBSITE

www.apterpower.com



RECOMMENDATION SCOPE

These links support product navigation and comparison. Technical values in this document are sourced only from the manufacturer record above.