Honeywell 8C-TDIL51

Digital Input IOTA / Product dashboard

This consolidated record keeps Honeywell 8C-TDIL51 identity, technical limits, applications, precautions and acceptance evidence on one review surface.

IDENTITY

Honeywell 8C-TDIL51

PRODUCT ROLE

Digital Input IOTA

PLATFORM

Experion Series 8 / Series C 24 Vdc Digital Input

CONTROL BASIS

Exact evidence plus installed-system record

Exact model	8C-TDIL51
Spare part number	51306969-175
Input type	24 Vdc digital input
Input channels	32
Configuration	Non-redundant
Coating	Coated

The dashboard places 8C-TDIL51 identity, operating role and maintenance boundaries in one review surface for the Experion Series 8 / Series C 24 Vdc Digital Input installation.

Dashboard boundary

This overview supports identification and maintenance planning; it does not declare compatibility with a neighboring model or approve a redesign.

Honeywell 8C-TDIL51

Digital Input IOTA / Technical matrix

Exact model	8C-TDIL51
Spare part number	51306969-175
Input type	24 Vdc digital input
Input channels	32
Configuration	Non-redundant
Coating	Coated
IOTA family	Cx-TDIL51
Terminal assemblies	Two 16-terminal plus one 4-terminal plug
Field power	Documented 24 Vdc arrangement
Maintenance role	Field termination assembly

DATA USE

Values support exact-model identification and configuration review.

LIMIT CONTROL

Electrical, software and loading limits remain subject to the installed design.

RECORD SOURCE

Honeywell Series C I/O User's Guide

REVISION NOTE

EPDOC-X126

Honeywell 8C-TDIL51

Digital Input IOTA / Application architecture

Motor-status collection

Terminates 24 Vdc run, ready and trip contacts.

Valve feedback

Collects limit-switch states for controller interpretation.

Package alarms

Groups discrete equipment alarms on a 32-point IOTA.

Electrical status

Routes breaker and auxiliary-contact states into the control system.

Input to decision	Exact label plus manufacturer evidence
Installed context	Rack, terminal, network, project and connected process
Change control	Approved scope and retained configuration baseline
Proof	Diagnostic state plus witnessed functional result

Within the Experion Series 8 / Series C 24 Vdc Digital Input context, 8C-TDIL51 must be reviewed together with its assigned project data, field interfaces and the maintenance acceptance record.

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Digital Input IOTA / Risk and decision register

PRIMARY RISK

A mismatch between the 8C-TDIL51 label and the installed digital input iota record.

CONFIGURATION RISK

Loss of the 8C-TDIL51 project, mapping, wiring or interface baseline.

SELECTION RISK

Treating another Experion Series 8 / Series C 24 Vdc Digital Input item as automatically equivalent to 8C-TDIL51.

RELEASE RISK

Returning 8C-TDIL51 to control before diagnostics and functional response are witnessed.

Decision register

8C-TDIL51 51306969-175: how many 24 Vdc field inputs are terminated?

The non-redundant Cx-TDIL51 assembly terminates 32 digital-input channels.

8C-TDIL51 51306969-175: which redundant model must not be confused with it?

Cx-TDIL61 is the redundant version and has a different spare part number.

8C-TDIL51 51306969-175: what must be captured before disconnecting field power?

Record field-power source, commons, terminal positions, channel logic and the as-found diagnostic state.

8C-TDIL51 51306969-175: how is a channel function-tested?

Apply an approved controlled contact or voltage state and verify the corresponding controller indication and logic interpretation.

8C-TDIL51 51306969-175: is the IOTA coated?

Yes. Honeywell maintenance data identifies 51306969-175 as the coated non-redundant Cx-TDIL51 IOTA.

8C-TDIL51 51306969-175: which terminal plug-in assemblies are used?

The maintenance list specifies two 16-terminal plug assemblies and one 4-terminal plug assembly for the non-redundant IOTA.

8C-TDIL51 51306969-175: what should be inspected after reseating?

Check terminal keying, fuse condition, carrier seating, field-power polarity and every conductor identifier.

8C-TDIL51 51306969-175: what closes the maintenance record?

Retain the exact identity, restored wiring, diagnostic review and witnessed state transitions for the affected channels.

Decision closeout

Approve the 8C-TDIL51 decision register only when identity, configuration, diagnostics and observed process behavior tell one consistent story.

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Digital Input IOTA / Canonical record and support

Canonical identity	Honeywell 8C-TDIL51
Product name	Digital Input IOTA
Family	Experion Series 8 / Series C 24 Vdc Digital Input
Selection boundary	Exact identity; no neighboring-model inference
Release boundary	Installed record plus witnessed functional proof

VERIFIED APTER POWER CATALOG REFERENCES

Navigation only; compatibility, substitution and manufacturer endorsement are not implied.

Honeywell 10300/1/1 Coated 24 Vdc to 5 Vdc Power Converter	View Honeywell 10300/1/1 Coated 24 Vdc to 5 Vdc Power Converter page
Honeywell MC-TDIA72 Thirty-Two-Channel 120 Vac Digital Input FTA	View Honeywell MC-TDIA72 Thirty-Two-Channel 120 Vac Digital Input FTA page

MANUFACTURER EVIDENCE RECORD

Honeywell Series C I/O User's Guide

EPDOC-X126

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Send the exact model, quantity, destination and requested condition for a quotation.