

INDUSTRIAL AUTOMATION PRODUCT

CC-TDIL11

Redundant Thirty-Two-Channel 24 Vdc Digital Input IOTA

Honeywell CC-TDIL11 is a redundant 32-channel 24 Vdc digital-input IOTA for Series C I/O. It terminates discrete field states for paired standard or sequence-of-events input modules.

IDENTITY	VERIFIED VALUE
Manufacturer	Honeywell
System family	Experion Series C I/O
Part number	51308388-175
Country	USA
HS code	8537101190

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Technical Specifications

Technical values below are limited to the named Honeywell product record.

PARAMETER	TECHNICAL VALUE
Input channels	32
Nominal input	24 Vdc
Input range	18 to 30 Vdc
Redundancy	Supported
Isolation	1500 Vac rms; +/-1500 Vdc
Isolation method	Optical
On threshold	13 Vdc; 3 mA minimum
Off threshold	5 Vdc; 1.2 mA maximum
Input resistance	4.2 kohm
Input delay	5 ms +/-20%
Compatible modules	CC-PDIL01; CC-PDIS01
IOTA size	12 inch

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System Role and Architecture

Honeywell CC-TDIL11 is a redundant 32-channel 24 Vdc digital-input IOTA for Series C I/O. It terminates discrete field states for paired standard or sequence-of-events input modules.

FUNCTION 1

Terminates thirty-two 24 Vdc field states

FUNCTION 2

Supports redundant Series C digital-input modules

FUNCTION 3

Optically isolates discrete circuits

FUNCTION 4

Provides one field interface for the paired input processors

Matched system components

- Series C carrier
- Paired CC-PDIL01 or CC-PDIS01 modules
- 24 Vdc field supply
- Discrete sensor and contact wiring

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	Series C carrier
Companion hardware	Paired CC-PDIL01 or CC-PDIS01 modules
Field connection	24 Vdc field supply
Primary system function	Terminates thirty-two 24 Vdc field states
Controlled acceptance duty	Redundant process permissive inputs

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Applications and Engineering Context

Redundant process permissive inputs

Terminates thirty-two 24 Vdc field states

Sequence-of-events contact capture

Supports redundant Series C digital-input modules

Critical equipment status monitoring

Optically isolates discrete circuits

Series C input cabinet replacement

Provides one field interface for the paired input processors

TECHNICAL NOTE

Confirm the installed module pair and channel assignment, preserve field polarity and perform redundant-module plus per-channel transition tests before restoring logic permissives.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	CC-TDIL11 / 51308388-175 recorded
Physical interface	Series C carrier
Companion check	Paired CC-PDIL01 or CC-PDIS01 modules
Functional proof	Terminates thirty-two 24 Vdc field states
Application test	Redundant process permissive inputs

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Engineering Precautions

- 1 Verify the complete CC-TDIL11 marking and its assigned Experion Series C I/O position before work.
- 2 Isolate the energy associated with Series C carrier before disconnecting CC-TDIL11.
- 3 Protect the CC-TDIL11 connectors and electronic assembly using approved ESD controls.
- 4 Record the as-found Paired CC-PDIL01 or CC-PDIS01 modules connections and configured assignment before replacement.
- 5 Confirm 24 Vdc field supply matches the approved installation record for CC-TDIL11.
- 6 Restore CC-TDIL11 under controlled conditions and review its model-specific diagnostics.
- 7 Complete a documented functional test for redundant process permissive inputs before release.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
CC-TAID11	Series C differential analog-input IOTA	Open product page
CC-MCAR01	Experion Series C carrier assembly	Open product page
DC-TFB412	Redundant Series C FIM IOTA	Open product page
DC-TCF901	Series C Mark II Control Firewall IOTA	Open product page

MANUFACTURER SOURCE RECORD

Honeywell Experion Series C I/O Specification
EP03-490-520 V10

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