

CC-TPIX11-51306544-175

Pulse Input IOTA

Honeywell CC-TPIX11-51306544-175 is a redundant 12-inch I/O termination assembly for the Series C pulse input module. It terminates single- or dual-pulse field channels and the documented fast cut-off relay connections used by the pulse input function.

BRAND	Honeywell	MODEL	CC-TPIX11-51306544-175
PRODUCT	Pulse Input IOTA	FAMILY	Series C I/O
OFFICIAL SOURCE	Experion Series-C I/O Specification	RECORD	EP03-490-520, Version 1.5, December 2021, section 5.7 and model table

DOCUMENT SCOPE

Official technical evidence, controlled engineering checks, model-specific FAQ and related product navigation.

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Product Overview and Applications

SYSTEM FUNCTION

Honeywell CC-TPIX11-51306544-175 is a redundant 12-inch I/O termination assembly for the Series C pulse input module. It terminates single- or dual-pulse field channels and the documented fast cut-off relay connections used by the pulse input function.

FUNCTION 1

Eight single or four dual-pulse inputs

FUNCTION 2

High-accuracy frequency and period measurement

FUNCTION 3

Per-channel isolated or bussed configuration

FUNCTION 4

Two fast cut-off relay outputs

APPLICATION	ENGINEERING CONTEXT
Custody-transfer pulse input	Processes high-accuracy single or dual-pulse field signals used by the documented MeterSuite application.
Rate and totalization	Provides pulse frequency, period and accumulated-value measurements to the Series C control strategy.
Fast dosing cut-off	Uses the two documented outputs to stop a dosing operation when its configured threshold is reached.
Pulse-integrity monitoring	Supports ISO 6551 dual-pulse fidelity and pulse-proving arrangements through the approved terminal wiring.

Technical Data and Acceptance

PARAMETER	VERIFIED VALUE
Complete model	CC-TPIX11-51306544-175
IOTA model	CC-TPIX11
IOTA role	Redundant pulse-input termination assembly
Form	12-inch redundant IOTA
Input capacity	8 single or 4 dual-pulse channels
Output capacity	2 fast cut-off outputs
Input type	High-impedance differential voltage
Input isolation	Optical, 1000 VDC
Single-channel frequency	0 to 100 kHz
Dual-pulse frequency	0 to 10 kHz
Frequency accuracy	+/-0.001% of reading from 0.5 Hz to 100 kHz
Input voltage	0 to 35 VDC
Input edge	Configurable rising or falling
Channel impedance	Greater than 70 kOhm
Field excitation	Internal 24 VDC or external 5 to 30 VDC
Channel functions	Frequency, accumulated value, high/low pulse width and period

Acceptance Path

1 IDENTITY

Full IOTA and part-number marking agrees with the maintenance record.

2 PULSE MEASUREMENT

Frequency, period and accumulated value agree with the controlled test source.

3 PULSE PROVING

Configured dual-pulse fidelity and channel diagnostics pass without unexplained fault.

4 CUT-OFF FUNCTION

Both fast cut-off outputs operate at their approved test thresholds.

Precautions and Model-Specific FAQ

NO.	PRECAUTION	QUESTION	ANSWER
1	Verify the complete CC-TPIX11-51306544-175 marking and 12-inch redundant IOTA position.	How many pulse channels can this IOTA terminate?	The pulse input design supports eight single channels or four dual-pulse channels, including mixed approved combinations.
2	De-energize field excitation and the associated Series C I/O assembly before wiring work.		
3	Record every TB1-TB4 conductor, shield, jumper and fast cut-off relay connection.	What frequency limits apply to single and dual-pulse service?	Single channels are specified from 0 to 100 kHz, while a dual-pulse channel is specified from 0 to 10 kHz.
4	Confirm whether each channel is single pulse or one half of an approved dual-pulse pair.	Which input electrical arrangement is documented?	The inputs are high-impedance differential-voltage channels with 1000 VDC optical isolation and greater than 70 kOhm input impedance.
5	Set isolated or bussed operation and the excitation source exactly as documented.		
6	Keep the applied input within the 0 to 35 VDC and configured frequency limits.	Can the active edge be selected?	Yes. Each configured pulse channel can use a rising edge, which is the default, or a falling edge.
7	Verify rising- or falling-edge selection and both trip-point settings before enabling the strategy.		
8	Test frequency, accumulated value, pulse proving, diagnostics and both cut-off outputs before release.		

FAQ, Related Products and Sources

QUESTION	ANSWER
How is field-sensor excitation supplied?	The power connection supports internal 24 VDC operation or an external user-supplied excitation source from 5 to 30 VDC.
What does the fast cut-off function do?	Two documented outputs support fast cut-off action so a dosing operation can be stopped when its threshold is reached.
Which measured values are available to the control strategy?	The channel function can provide frequency, accumulated value, high and low pulse width, and period.
What should pass before commissioning release?	Verify the selected single/dual allocation, excitation, edge, input range, pulse proving, diagnostics and operation of both cut-off outputs.

MANUFACTURER SOURCE RECORDS

Experion Series-C I/O Specification - EP03-490-520, Version 1.5, December 2021, section 5.7 and model table
Series C I/O User Guide - EPDOC-X126-en-A, sections 5.21 and 6.1-6.11

Related Products on Apter Power

MODEL	APTER POWER PAGE
Honeywell 8C-TDODA1-51307149-175	View Honeywell 8C-TDODA1-51307149-175
Honeywell 8C-TDODB1	View Honeywell 8C-TDODB1
Honeywell CC-GDIL01	View Honeywell CC-GDIL01
Honeywell CC-HCN911	View Honeywell CC-HCN911
Honeywell CC-IP0101-51410056-175	View Honeywell CC-IP0101-51410056-175
Honeywell CC-MCAR01	View Honeywell CC-MCAR01
Honeywell CC-PAIH01	View Honeywell CC-PAIH01
Honeywell CC-PAIH02-51405038-376	View Honeywell CC-PAIH02-51405038-376

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