EXPERION LX SERIES 8

Product Data Sheet

8C-PDIPA1 51454471-375

Digital pulse input module

INPUT CHANNELS	PULSE-CAPABLE CHANNELS	RATED FIELD VOLTAGE	EXTERNAL FIELD SUPPLY RANGE
32	**1–16**	**24 V DC**	**18–30 V DC**

Honeywell 8C-PDIPA1 51454471-375 is a coated Series 8 digital input and pulse accumulation module for Experion LX. Its 32 inputs accept 24 V DC field signals, with the first sixteen channels individually selectable for discrete input or pulse counting and frequency measurement.

01 TECHNICAL DATA

Input channels	32
Pulse-capable channels	1–16
Rated field voltage	24 V DC
External field supply range	18–30 V DC
Module current	105 mA
Pulse frequency	0–1 kHz; duty cycle at least 30%
Minimum pulse width	300 µs
Channel scan time	300 µs
ON threshold	13 V DC minimum or 3 mA minimum
OFF threshold	5 V DC maximum or 1.2 mA maximum

Honeywell Series 8 Controller and I/O Specification S803-150-530, May 2024; pages 17 and 33.

02 ADDITIONAL PRODUCT DATA

Input impedance	4.2 kΩ
Input filter delay	5 ms ±20%
Field isolation	1000 V AC RMS with external field power
Nonredundant IOTA	8C-TDILA1
Redundant IOTA	8C-TDILB1

03 PRODUCT FUNCTION

Optical isolation separates the input circuitry from the control electronics when external field power is used. The module handles pulses up to 1 kHz with a minimum 30% duty cycle and uses a 300 µs channel scan; nonredundant and redundant IOTA arrangements provide alternative field termination configurations.

04 SYSTEM COMPATIBILITY

Use the 8C-TDILA1 IOTA for a nonredundant arrangement or 8C-TDILB1 for redundancy. Select internal or external field power deliberately; the specified 1000 V AC system-to-field isolation requires an external user-supplied field source.

05 REFERENCE

Honeywell Series 8 Controller and I/O Specification S803-150-530, May 2024; pages 17 and 33.

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