

Apter Power 8C-PDILA1

Installation, Application and Verification Guide

A field guide for installation and verification of the Honeywell 8C-PDILA1 coated Series 8 24 VDC digital-input module.

1. Product identity and application

Product role	24 VDC digital-input module
Construction	Coated Series 8 module
Input capacity	32 digital-input channels
Documented IOTAs	8C-TDILA1 non-redundant; 8C-TDILB1 redundant

2. Pre-installation review

- Confirm the complete 8C-PDILA1 model and spare-part marking.
- Match the module to the installed IOTA and its redundant or non-redundant arrangement.
- Verify the documented 24 VDC field-power source, return and input channel assignments.
- Review field contact type, input state convention and the control-system configuration.
- Apply isolation, lockout and ESD controls before module removal or insertion.

Important

Use the exact installed-system documentation and the applicable Honeywell instructions. Do not transfer wiring, configuration or ratings from a similar model.

3. Installation and application workflow

1	Record the installed slot, IOTA model, field-power selection and channel mapping.
2	Inspect the IOTA connector, keying, terminal hardware and module contacts.
3	Install 8C-PDILA1 on the documented IOTA and secure it using the approved procedure.
4	Verify input wiring, field-power return and channel labels against the cabinet drawing.
5	Restore power and confirm module status, input-state indication, diagnostics and alarms.

4. Commissioning and verification record

Check	Acceptance point	Record
Identity	8C-PDILA1 and the installed IOTA agree with the approved design.	Pass / Review
Field power	24 VDC supply, return and power selection match project documentation.	Pass / Review
Channels	Each discrete input changes state at the intended channel.	Pass / Review
Diagnostics	Module status and channel diagnostics show the expected healthy state.	Pass / Review
Functional	Control logic, alarms and operator indications respond correctly.	Pass / Review

Record equipment identity, technician, date, control-system status and any corrective action in the site maintenance system before closing the work order.

5. Product-specific precautions

1 Do not mix coated and uncoated module identities during replacement.	2 Confirm redundant or non-redundant IOTA compatibility before installation.
3 Do not apply field voltage outside the documented 24 VDC input arrangement.	4 Protect module and IOTA contacts from ESD, moisture and contamination.
5 Record internal or external field-power selection before disconnecting wiring.	6 Do not infer channel state convention from a neighboring module.
7 Verify all affected interlocks and alarms after returning the module to service.	8 Document final channel states, diagnostics and any wiring corrections.

6. Official manufacturer sources

Honeywell Series 8 Controller and I/O Specification	prod-edam.honeywell.com
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Prepared by Apter Power for product identification, installation planning and verification. Always use the current project documentation and the applicable Honeywell instructions for the installed system.

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