CC-GDIL01

Galvanically Isolated Digital Input Module

Honeywell CC-GDIL01 is a 32-channel galvanically isolated digital-input module for acquiring 24 Vdc field states in Series C systems.

PRODUCT SNAPSHOT

BRAND	Honeywell
FAMILY	Experion Series C I/O
PART	51306317-175
ORIGIN / HS	USA / 8537101190

APTER POWER SALES TEAM

WHATSAPP / PHONE
+86 180 3023 5313

EMAIL
sales13@apterpower.com

WEBSITE
www.apterpower.com

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PRODUCT OVERVIEW

Honeywell CC-GDIL01 is a 32-channel galvanically isolated digital-input module for acquiring 24 Vdc field states in Series C systems.

1. Acquires thirty-two discrete field states
2. Provides galvanic channel isolation
3. Filters field contact transitions
4. Reports digital-input diagnostics

SYSTEM COMPONENTS

- Matched digital-input IOTA
- 24 Vdc field supply
- Series C carrier
- Dry contacts or powered status devices

TECHNICAL DATA

PARAMETER	VALUE
Input channels	32
Input isolation	Galvanic
Signal type	Digital input

PARAMETER	VALUE
Input supply	24 Vdc field circuits
Module family	Series C

TECHNICAL NOTE

Verify input supply reference, field contact wetting arrangement and channel isolation before testing state changes from the process device.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Motor running feedback

Acquires thirty-two discrete field states

Valve limit-switch inputs

Provides galvanic channel isolation

Package-unit alarm contacts

Filters field contact transitions

Electrical switchgear status

Reports digital-input diagnostics

PRODUCT PRECAUTIONS

1. Verify the complete CC-GDIL01 marking and its assigned Experion Series C I/O position before work.
2. Isolate the applicable power and field energy before disconnecting CC-GDIL01.
3. Protect CC-GDIL01 connectors and electronic assemblies with approved ESD controls.
4. Record the installed wiring, channel assignment and configuration before replacement.
5. Match Matched digital-input IOTA and 24 Vdc field supply to the documented system arrangement.
6. Commission CC-GDIL01 with controlled status, signal and diagnostic checks.
7. Retain the final motor running feedback functional-test result in the maintenance record.

ENGINEER FAQ

Q1 **Does CC-GDIL01 match Matched digital-input IOTA in a Motor running feedback installation?**

Verify the complete CC-GDIL01 marking, the documented Experion Series C I/O position and the installed Matched digital-input IOTA before fitting the assembly.

Q2 **How should CC-GDIL01 be wired when it must acquires thirty-two discrete field states?**

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for CC-GDIL01; then continuity-test the affected path.

Q3 **Which Experion Series C I/O records should be captured before removing CC-GDIL01?**

Record the as-found wiring, installed position, active configuration and diagnostic state associated with CC-GDIL01 before disconnection.

Q4 **What controlled test confirms that CC-GDIL01 can provides galvanic channel isolation?**

Apply the approved field or simulated stimulus, observe the Experion Series C I/O indication and confirm the intended response without bypassing the normal interlocks.

Q5 **Which 24 Vdc field supply condition should be checked when CC-GDIL01 reports an abnormal state?**

Check the 24 Vdc field supply supply, seating and connection first, then compare channel diagnostics with the recorded CC-GDIL01 baseline.

Q6 **Can CC-GDIL01 be moved directly into Valve limit-switch inputs without validating Dry contacts or powered status devices?**

No. Confirm the Dry contacts or powered status devices, revision, connection scheme and Experion Series C I/O configuration before transferring CC-GDIL01 to that duty.

Q7 **What maintenance evidence is required after CC-GDIL01 is used for Package-unit alarm contacts?**

Retain the nameplate record, corrective action, final diagnostics and a controlled package-unit alarm contacts functional-test result for CC-GDIL01.

Q8 **How should CC-GDIL01 be returned to service in Electrical switchgear status?**

Restore power under control, verify filters field contact transitions, exercise the intended signal path and release CC-GDIL01 only after the Experion Series C I/O remains in its approved operating state.

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

+86 180 3023 5313 | sales13@apterpower.com | www.apterpower.com