

900G02-0202

ControlEdge HC900 Sixteen-Channel Digital Input Module

Honeywell 900G02-0202 is a sixteen-channel DC digital input module for ControlEdge HC900. It senses current-sinking field states and transfers their logic condition to the controller.

PRODUCT SNAPSHOT

BRAND

Honeywell

FAMILY

ControlEdge HC900 I/O

PART

900G02-0202

HS CODE

8537101190

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PRODUCT OVERVIEW

Honeywell 900G02-0202 is a sixteen-channel DC digital input module for ControlEdge HC900. It senses current-sinking field states and transfers their logic condition to the controller.

- 1

Acquires sixteen DC discrete input states
- 2

Separates field inputs into two isolated groups of eight
- 3

Applies defined voltage and current thresholds to logic-state detection
- 4

Reports channel states to ControlEdge HC900 control strategies

SYSTEM COMPONENTS

- ControlEdge HC900 rack
- 10-32 Vdc field supply
- dry contacts or compatible DC sensors
- HC Designer configuration

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
900H02-0202	HC900 low-side digital-output module	Open product page
8C-TDIL01	Series 8 digital-input SOE IOTA	Open product page
CC-TDIL11	Series C redundant digital-input IOTA	Open product page
MC-TPIX12	TPS pulse-input termination assembly	Open product page

TECHNICAL DATA

PARAMETER	VALUE
Input channels	16
Channel grouping	2 groups of 8
Input type	Current sinking
Input voltage	10 to 32 Vdc
Peak input voltage	32 Vdc
Group isolation	42.4 Vdc maximum
ON-state threshold	9.5 Vdc minimum
OFF-state threshold	3.5 Vdc maximum
Input impedance	2.6 kOhm nominal

PARAMETER	VALUE
Input current at 12 V	2.3 mA
Input current at 24 V	6.9 mA
Minimum ON current	1 mA
Maximum OFF current	0.7 mA
OFF-to-ON response	4 ms maximum
ON-to-OFF response	4 ms maximum
5 V loading	130 mA maximum
24 V loading	0 mA

TECHNICAL NOTE

Match field voltage and commoning to the two groups of eight, preserve channel polarity, then force controlled OFF and ON states while confirming response and diagnostics in HC Designer.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Machine permissive and status inputs

Acquires sixteen DC discrete input states

Limit-switch monitoring

Separates field inputs into two isolated groups of eight

Package-unit discrete indication

Applies defined voltage and current thresholds to logic-state detection

Two-group isolated field-state acquisition

Reports channel states to ControlEdge HC900 control strategies

PRODUCT PRECAUTIONS

- 1 Verify 900G02-0202 and its documented HC900 rack position before work.
- 2 Place affected control logic and equipment in a safe maintenance state.
- 3 Isolate the field supply before disturbing input terminals.
- 4 Record the two group commons and all sixteen channel assignments.
- 5 Confirm each connected device stays within the documented input-voltage range.
- 6 Use ESD controls and protect module and rack connectors during handling.
- 7 Test OFF and ON thresholds with controlled field states after installation.
- 8 Review channel indication, controller diagnostics and intended logic response before release.

ENGINEER FAQ

Q1 Does 900G02-0202 match ControlEdge HC900 rack in a Machine permissive and status inputs installation?

Verify the complete 900G02-0202 marking, the documented ControlEdge HC900 I/O position and the installed ControlEdge HC900 rack before fitting the assembly.

Q3 Which ControlEdge HC900 I/O records should be captured before removing 900G02-0202?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 900G02-0202 before disconnection.

Q5 Which 10-32 Vdc field supply condition should be checked when 900G02-0202 reports an abnormal state?

Check the 10-32 Vdc field supply supply, seating and connection first, then compare channel diagnostics with the recorded 900G02-0202 baseline.

Q7 What maintenance evidence is required after 900G02-0202 is used for Package-unit discrete indication?

Retain the nameplate record, corrective action, final diagnostics and a controlled package-unit discrete indication functional-test result for 900G02-0202.

Q2 How should 900G02-0202 be wired when it must acquires sixteen dc discrete input states?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 900G02-0202; then continuity-test the affected path.

Q4 What controlled test confirms that 900G02-0202 can separates field inputs into two isolated groups of eight?

Apply the approved field or simulated stimulus, observe the ControlEdge HC900 I/O indication and confirm the intended response without bypassing the normal interlocks.

Q6 Can 900G02-0202 be moved directly into Limit-switch monitoring without validating HC Designer configuration?

No. Confirm the HC Designer configuration, revision, connection scheme and ControlEdge HC900 I/O configuration before transferring 900G02-0202 to that duty.

Q8 How should 900G02-0202 be returned to service in Two-group isolated field-state acquisition?

Restore power under control, verify applies defined voltage and current thresholds to logic-state detection, exercise the intended signal path and release 900G02-0202 only after the ControlEdge HC900 I/O remains in its approved operating state.