

INDUSTRIAL AUTOMATION PRODUCT

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.

IDENTITY	VERIFIED VALUE
Manufacturer	Honeywell
System family	ControlEdge HC900 I/O
Part number	900G02-0202
HS code	8537101190

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Technical Specifications

Technical values below are limited to the named Honeywell product record.

PARAMETER	TECHNICAL 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
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

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System Role and Architecture

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.

FUNCTION 1

Acquires sixteen DC discrete input states

FUNCTION 2

Separates field inputs into two isolated groups of eight

FUNCTION 3

Applies defined voltage and current thresholds to logic-state detection

FUNCTION 4

Reports channel states to ControlEdge HC900 control strategies

Matched system components

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

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	ControlEdge HC900 rack
Companion hardware	10-32 Vdc field supply
Field connection	dry contacts or compatible DC sensors
Primary system function	Acquires sixteen DC discrete input states
Controlled acceptance duty	Machine permissive and status inputs

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Applications and Engineering Context

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

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.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	900G02-0202 / 900G02-0202 recorded
Physical interface	ControlEdge HC900 rack
Companion check	10-32 Vdc field supply
Functional proof	Acquires sixteen DC discrete input states
Application test	Machine permissive and status inputs

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Engineering 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.

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

MANUFACTURER SOURCE RECORD

ControlEdge HC900 I/O Modules Specification

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