

INDUSTRIAL AUTOMATION PRODUCT

900H02-0202

ControlEdge HC900 Sixteen-Channel Digital Output Module

Honeywell 900H02-0202 is a sixteen-channel current-sinking digital output module for ControlEdge HC900. It switches grouped DC field loads from controller commands and provides electronic output protection.

IDENTITY	VERIFIED VALUE
Manufacturer	Honeywell
System family	ControlEdge HC900 I/O
Part number	900H02-0202
HS code	8537101190

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2

Technical Specifications

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

PARAMETER	TECHNICAL VALUE
Output channels	16
Channel grouping	2 isolated groups of 8
Output type	Current-sinking low-side
Operating voltage	6.5 to 32 Vdc
Low-voltage operation	5 to 6.5 Vdc below 0.5 A per channel
Peak output voltage	34 Vdc
ON-state voltage drop	0.3 Vdc at 1 A
Resistive load	1 A per point; 8 A per module
Incandescent load	0.5 A per point
Inductive load	5 mH maximum
OFF-state leakage	0.15 mA at 32 V
Inrush current	4 A for 10 ms
Minimum load	0 mA
OFF-to-ON response	6 ms maximum
ON-to-OFF response	6 ms maximum
5 V loading	340 mA maximum
24 V loading	0 mA
Protection	Electronic high-current and high-temperature limiting

3

System Role and Architecture

Honeywell 900H02-0202 is a sixteen-channel current-sinking digital output module for ControlEdge HC900. It switches grouped DC field loads from controller commands and provides electronic output protection.

FUNCTION 1

Switches sixteen low-side DC field loads

FUNCTION 2

Separates outputs into two isolated groups of eight

FUNCTION 3

Limits excessive current and device temperature electronically

FUNCTION 4

Executes ControlEdge HC900 logic commands at the field interface

Matched system components

- ControlEdge HC900 rack
- 6.5-32 Vdc field supply
- compatible resistive or limited inductive loads
- HC Designer control strategy

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	ControlEdge HC900 rack
Companion hardware	6.5-32 Vdc field supply
Field connection	compatible resistive or limited inductive loads
Primary system function	Switches sixteen low-side DC field loads
Controlled acceptance duty	Solenoid and relay-coil command outputs

4

Applications and Engineering Context

Solenoid and relay-coil command outputs

Switches sixteen low-side DC field loads

Machine actuator enable circuits

Separates outputs into two isolated groups of eight

Grouped DC annunciator outputs

Limits excessive current and device temperature electronically

Protected package-unit command interface

Executes ControlEdge HC900 logic commands at the field interface

TECHNICAL NOTE

Confirm load type, group supply and per-channel current before wiring, then command each output under controlled conditions and verify that protective limiting and field response operate correctly.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	900H02-0202 / 900H02-0202 recorded
Physical interface	ControlEdge HC900 rack
Companion check	6.5-32 Vdc field supply
Functional proof	Switches sixteen low-side DC field loads
Application test	Solenoid and relay-coil command outputs

5

Engineering Precautions

1

Verify 900H02-0202 and the assigned output slot before field work.

2

Secure all commanded equipment and isolate both output-group supplies.

3

Record channel loads, common returns and safe-state requirements.

4

Check resistive, incandescent and inductive loads against their applicable limits.

5

Use ESD controls and inspect the rack and module connectors before insertion.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
900G02-0202	HC900 digital-input module	Open product page
8C-TDODB1	Series 8 redundant digital-output IOTA	Open product page
CC-PAOH01	Series C analog-output module with HART	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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