Mini OCS/RCS



Mixed I/O Module

HE500OCS035 / HE500OCS065 HE500RCS065 12/24 Vdc In, Positive/Negative Logic

3A Relay Out

1 SPECIFICATIONS

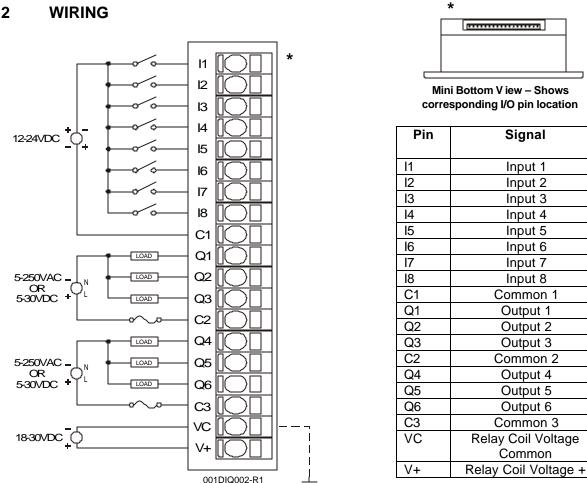
INPUT			
Inputs per Module	8 isolated	Input Impedance	> 10K Ohms
Commons per Module	1	Minimum ON Current	1mA
Input Voltage Range	12/24VDC	Maximum OFF Current	200μΑ
Peak Voltage	35VDC Max.	OFF to ON Response	1ms.
ON Voltage level	Min. 9VDC	ON to OFF Response	1ms.
OFF Voltage level	Max. 3VDC		
Isolation (Common to Common and Channel to Common)	500VDC	Status Indicator	8

OUTPUT			
Outputs per Module	6 relay	Maximum Leakage Current	5μΑ
Commons per Module	2	Maximum Inrush Current	3A per channel
Output Type	Relay	Minimum Load	None
Coil Voltage	18-30VDC	OFF to ON Response	6ms. Typical
Contact Voltage	250VAC / 30VDC Max.	ON to OFF Response	.3ms. Typical
ON Voltage drop	0.2V Max.	Status Indicator	6
Fuses	10A common	Isolation (Common to	
Maximum Load current (resistive) per channel	ЗA	Common and Channel to Common)	500VDC

General Specifications						
Required Power (Steady State)	4.8W (200mA @ 24VDC)	Operating Temperature	0° to 50° Celsius			
Required Power (Inrush)	900mA max. @ 24VDC for 1ms.	Terminal Type	Spring Clamp, Removable			
Relative Humidity	5 to 95% Non-condensing	Weight	9 oz. (256 g)			
CE UL	- See Compliance Table at http://www.heapg.com/Support/compliance.htm					

MAN0299-03

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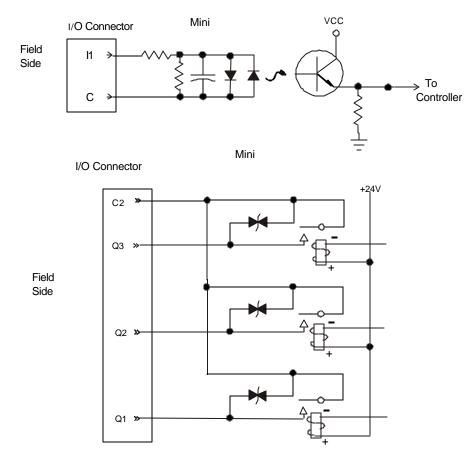
Warning: To protect the module and associated wiring from load faults, use external fuses (10 A) as shown. This warning affects Mini OCS035 / OCS065, Revisions E or higher and all versions of the Mini RCS065.

Warning: Connecting high voltage to any I/O pin may cause high voltage to appear at other I/O pins.

Warning: Wiring the line side of the AC source to loads connected to outputs 1 through 6 and the neutral side of the AC source to the output common(s) would create a Negative Logic condition, which may be considered an unsafe practice.

2 WIRING

3 INTERNAL CIRCUIT SCHEMATIC



Specification for transient voltage suppressors (transorbs) used on output circuitry is 400VDC, bi-directional 400 watts.

Electro-mechanical relays comply with IEC1131-2.

4 CONFIGURATION

Note: The status of the I/O can be monitored in Cscape Software.

Selecting the **I/O Map** tab provides information about the I/O registers. The I/O Map is <u>not</u> edited by the user.

The **Module Setup** is used in applications where it is necessary to change the default states of the outputs when the controller (e.g., OCS100) enters idle/stop mode. The default turns the outputs OFF when the controller enters idle/stop mode. By selecting the Module Setup tab, each output can be set to either turn ON, turn OFF or to hold the last state. Generally, most applications use the default settings.

Warning: The default turns the outputs OFF when the controller enters idle/stop mode. To avoid injury of personnel or damages to equipment, exercise extreme caution when changing the default setting using the **Module Setup** tab.

5 INSTALLATION / SAFETY

Warning: Previous versions of this product provided internal fuses on the output circuits (relay contacts). Due to CE Low Voltage Directive (LVD) marking requirements, these fuses have been removed and replaced with solid wire. Therefore, it is now the responsibility of the user of this equipment to ensure that adequate fusing is installed *externally* on each relay output circuit.

a. All applicable codes and standards are to be followed in the installation of this product.

b. Use the following wire type or equivalent: Belden 8917, 16 AWG or larger.

For detailed installation information, refer to Mini Hardware Manual. A <u>handy checklist</u> is provided that covers panel box layout requirements and minimum clearances.

Digital Input Chart

When found on the product, the following symbols specify:

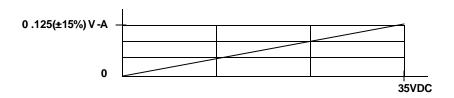


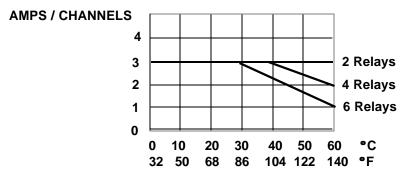
Warning: Consult user documentation.



Warning: Electrical Shock Hazard.

6 INPUT / OUTPUT CHARACTERISTICS





Typical Relay Life						
Voltage (Resistive)	Load Current					
voltage (Resistive)	1 Amp	2 Amp	3 Amp			
30VDC	600K	250K	125K			
125VAC	750K	300K	150K			
250VAC	500K	200K	100K			

7 TECHNICAL SUPPORT

For assistance, contact Technical Support at the following locations. Please visit our website for manual updates.

North America:

(317) 916-4274 www.heapg.com Europe: (+) 353-21-4321-266 www.horner-apg.com NOTES

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