

High Speed Counter HE500OCS033 / HE500OCS063 HE500RCS063 High Speed Counter Inputs

Sourcing Pulse Outputs

MINI OCS/RCS

This product also has a detailed supplement (SUP0265) available.

1 SPECIFICATIONS

INPUT							
Inputs per Module		8			I	Commons per Module	1
Programmable Input Voltage	Zero Crossing	TTL / 5 VDC	12 VDC	24 VDC		Input Type	Positive Logic
Ranges						Peak Voltage	35 VDC Max.
ON Voltage Level	+ 0.1	+ 2	+ 8	+ 16		Input Impedance	10K Ohms
OFF Voltage Level	- 0.1	+ 0.8	+ 4	+ 8		Input Filter	500KHz, 50KHz, 5KHz

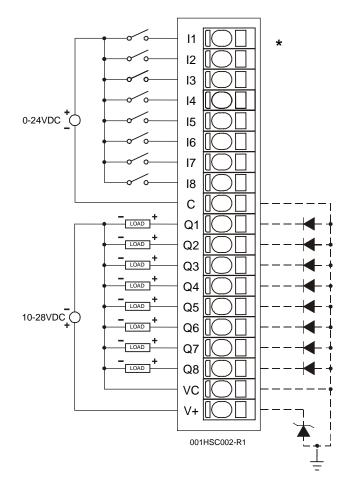
OUTPUT				
Outputs per Module	8		Maximum Inrush Current	650mA per channel
Commons per Module	1	_	Minimum Load	None
Operating Voltage	10 - 28VDC		OFF to ON Response	10µs.
Output Type	Sourcing / 10K Pull-Down Positive Logic		ON to OFF Response	10μs.
Peak Voltage	28VDC Max.		Output Characteristics	Current Sourcing
Maximum Load Current Per Output	0.5A Max.	-	Output Protection	Short Circuit

General Specifications					
Required Power (Steady State)	4.8W (200mA @ 24VDC)	Operating Temperature	0° to 50° Celsius		
Required Power (Inrush)	900mA @ 24VDC for 1 ms.	Terminal Type	Spring Clamp, Removable		
Relative Humidity	5 to 95% Non-condensing	Weight	9.5 oz. (270 g)		
CE	See Compliance Table at http://www.heapg.com/Support/compliance		om/Support/compliance.htm		
UL	Operating Temperature Code T4A;				
	See Compliance Table at http://www.heapg.com/Support/compliance.htm				

MAN0297-04

This Data Sheet is published individually & also as a part of the current version of Mini I/O Manual (MAN0581). Information is subject to change without notice.

2 WIRING

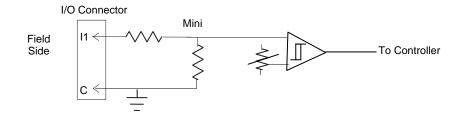


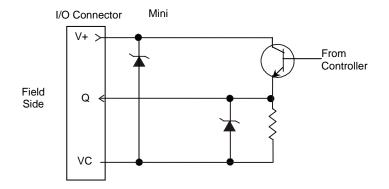
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Mini Bottom View – Shows corresponding I/O pin location

Pin	Signal		
1	Input 1		
12	Input 2		
13	Input 3		
14	Input 4		
15	Input 5		
16	Input 6		
17	Input 7		
18	Input 8		
C	Common		
Q1	Output 1		
Q2	Output 2		
Q3	Output 3		
Q4	Output 4		
Q5	Output 5		
Q6	Output 6		
Q7	Output 7		
Q8	Output 8		
VC	Common		
V+	Load Voltage +		

3 INTERNAL CIRCUIT SCHEMATIC





Specification for transient voltage suppressors (transorbs) used on output circuitry is 33VDC, 300 watts.

4 **CONFIGURATION AND INPUT/OUTPUT MODES**

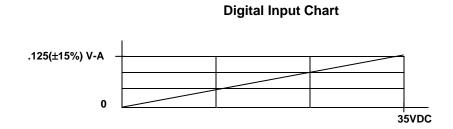
Note: The status of the I/O can be monitored in Cscape Software.

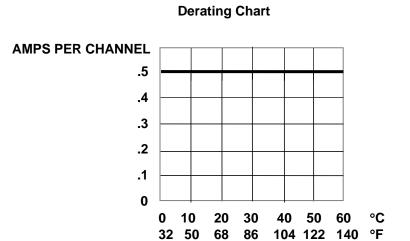
1. Preliminary Configuration procedures that are applicable to all Mini OCS Modules are located in the Mini Hardware Manual (MAN0305.)

There are two screen tabs for this model – the **I/O Map** tab and the **Module Setup** tab. The I/O Map is not edited by the user. The I/O Map describes which I/O registers are assigned to a specific Mini OCS model. The I/O Map is determined by the model number.

2. Consult the SmartStack High Speed Counter Supplement (see front page of this data sheet) to continue the rest of the configuration process after pressing the Module Setup tab and selecting an option.

5 **INPUT / OUTPUT CHARACTERISTICS**





6 INSTALLATION / SAFETY

- 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.

7 TECHNICAL ASSISTANCE

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