



High Speed Counter

HE800HSC601

High Speed Counter Inputs
Sourcing Pulse Outputs



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

1 SPECIFICATIONS

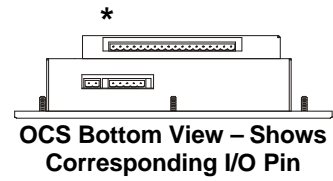
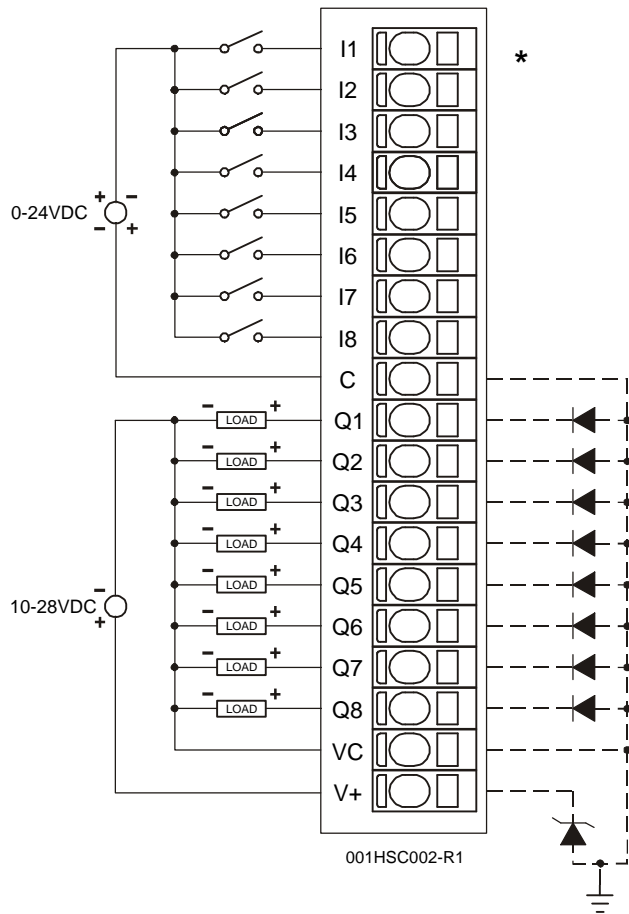
INPUT	HSC601					HSC601
Inputs per Module	8				Commons per Module	1
Programmable Input Voltage Ranges	Zero Crossing	TTL / 5 VDC	12 VDC	24 VDC	Input Type	Positive Logic
	ON Voltage Level	+ 0.1	+ 2	+ 8	Peak Voltage	35 VDC Max.
OFF Voltage Level	- 0.1	+ 0.8	+ 4	+ 8	Input Impedance	10K Ohms
					Input Filter	500KHz, 50KHz, 5KHz

OUTPUT	HSC601			HSC601
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)	0.29W (12.43mA @ 24VDC)	CE	Refer to MAN0005
Required Power (Inrush)	0.44W (18.4mA @ 24VDC)	UL	Operating Temperature Code T4A; Also refer to SUP0259
Relative Humidity	5 to 95% Non-condensing	Terminal Type	Spring Clamp, Removable
Operating Temperature	0° to 60° Celsius	Weight	9.5 oz. (270 g)

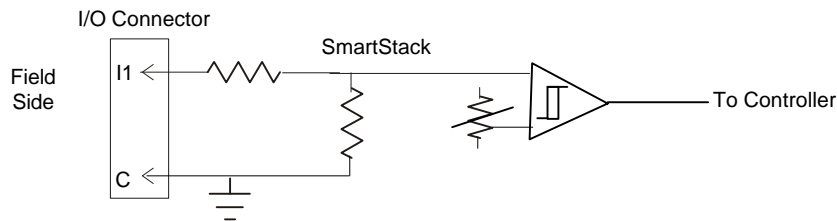
MAN0273-06

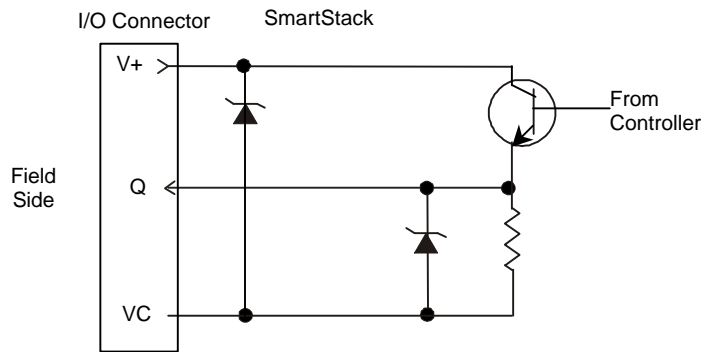
2 WIRING



Pin	Signal HSC601
I1	Input 1
I2	Input 2
I3	Input 3
I4	Input 4
I5	Input 5
I6	Input 6
I7	Input 7
I8	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.

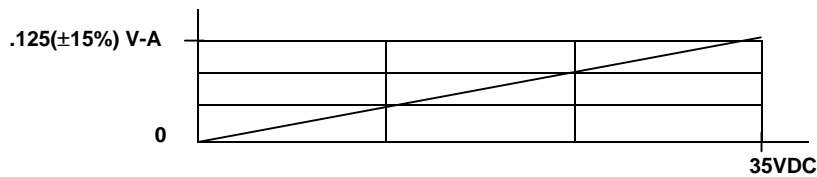
4 CONFIGURATION AND INPUT/OUTPUT MODES

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

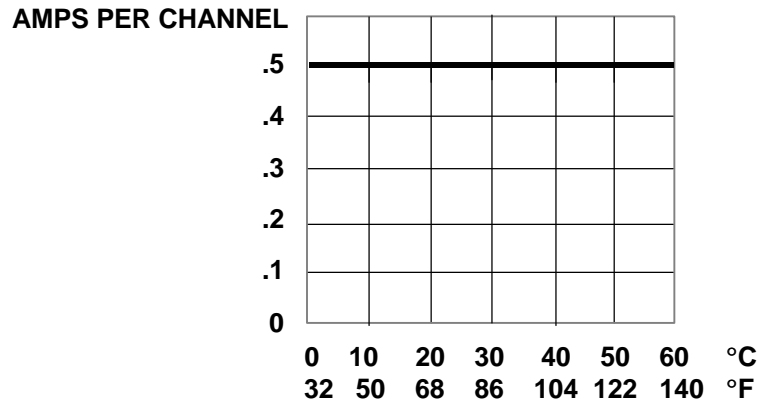
See the Supplement for the High Speed Counter Supplement (SUP0265) for detailed information covering configuration and input/output modes.

5 INPUT / OUTPUT CHARACTERISTICS

Digital Input Chart



Derating Chart



6 INSTALLATION / SAFETY

Warning: Remove power from the OCS controller, CAN port, and any peripheral equipment connected to this local system before adding or replacing this or any module.

- 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 Chapter Two in the Control Station Hardware Manual (MAN0227). A handy checklist is provided that covers panel box layout requirements and minimum clearances.

7 TECHNICAL ASSISTANCE

For assistance, contact Technical Support at the following locations:

North America:

(317) 916-4274 or visit our website at www.heapg.com.

Europe:

(+) 353-21-4321-266