

# Maxiflex 4HSC Counter Module

Model M1711A 4 Channel Universal High Speed Counter Module.

# DATASHEET



#### FEATURES

- Fits in any MAXIFLEX base I/O slot
- 4 individually Isolated Counter Channels
- 1500V rms Isolation
- Counts up to 200kHz
- Accepts 9-30Vdc or 3 to5Vdc Pulse Input
- Individual Channel Activity Indication LED
- Removable Terminal Blocks
- Hot Plug-in
- In system automatic module detection

The Maxiflex M1711 High-Speed Counter module provides field inputs to four 16-bit counters. Two additional internal counters may be configured for a variety of functions. The counters can operate up to a frequency of 200 KHz.

Each input may be configured by links inside the module to either be a 3-5V dc, or a 9-30V dc input. The status of the inputs may be read by the Maxiflex CPU directly, providing up to 4 general purpose Digital Inputs when not used as counters.

Each input has a green LED to indicate the input signal status.

Isolation is 1500 Vrms between individual inputs, and between inputs and system logic.

The module plugs into any I/O slot and has a Scan Code and Module ID, which are used by the CPU to detect the module. The two internal counters provided may be used in conjunction with a built in crystal oscillator to provide a variable time base. The internal configuration of the hardware enables frequency measurement and pulse counting over an accurate time period.

The counters may be configured for various operating modes. The modes are as follows:

- Mode 0 Event Counting
- Mode 1 Re-triggerable One-Shot Counter
- Mode 2 Rate Generator
- Mode 3 Square Wave Mode
- Mode 4 Software Triggered Strobe
- Mode 5 Hardware Triggered Strobe
- Mode 6 Frequency Measurement

#### **SPECIFICATIONS**

Input		
Number	4 Counter Inputs	
Туре	3-5Vdc or 9-30Vdc Pulse	
Isolation	100% tested to 1500Vac, 50/60Hz for 1 minute - all outputs to logic	
Insulation Resistance	1000M $\Omega$ min. at 500Vdc	
Input Indication (Green LED)	LED on channel Active LED off channel Inactive	
Input Range	0 to 200kHz	
Counter Range	0 to 65535 counts	
InputTermination		
Types	Screw clamp Plug-in Terminal Blocks and 20 way ribbon header	
Screw Terminal Wire Size	2.0mm <sup>2</sup> maximum For manageable wiring to the module, 0.5 mm <sup>2</sup> is recommended with 2mm overall outside diameter	
Environmental		
Operating Temperature	-25°C to +60°C (-13°F to +140°F)	

Storage Temperature		-40°C to +70°C (-40°F to +158°F)
Humidity	95% max. at 40°C (104°F) non-condensing.	
Protection	Electronics conformally coated	
Logic Power Consumption		
From Logic Power Sup	ply	60mA from 5Vdc max. 68mA from 12Vdc max 0.9W max overall
Auto Identification Codes		
Module ID		126
Scan Code		127
Mass		
Excluding Packaging		320g (11.3oz)
Including Packaging		410g (14.5oz)
Ordering Information		
Model		Order Code
4HSC		M1711A

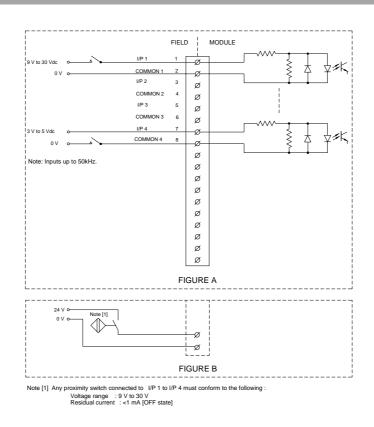




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## **ELECTRICAL CONNECTION**



### MECHANICAL CONFIGURATION

