

Two-Axis Motion Module



For Toshiba PLC's



The MC212 is a 2-axis motion module for the Toshiba T2 Series PLC. This module outputs a pulse train to a servo or stepping motor amplifier for motion control in a PLC controlled environment. The MC212 includes the following features:



- ◆ Independent/proportional control
- ◆ Teaching target position
- ◆ Variable speed
- ◆ Feedback Pulse Monitoring
- ◆ Disable Soft-limit
- ◆ Built-in EEPROM

The MC212 module mounts in any T2E or T2N I/O slot. Several modules can be mounted in T2E or T2N racks to meet a variety of requirements. Each axis requires 30 points of memory and may be programmed for use with various command units – pulse, inch, mm, or others. The MC212 incorporates several modes of operation:

Jog
Zero Return
Fixed Speed
Direct Command
Point Number
Automatic Stepping
Interrupt

Specifications

Functional

ITEM		SPECIFICATION
Number of Axis		2 (X & Y independent control, or X & Y linear interpolation)
Command Units		Pulse, mm, inch, or other
Command Value Range		+/- 9,999,999 command units
Command Data Capacity		30 points for each axis
Maximum Pulse Output Speed		200 kpps
Accel/Decel System		Automatic trapezoid/triangular accel/decel
Accel/Decel Time		0 to 32.76 sec
Backlash Compensation		0 to 1,000 pulses
Zero Offset Range		+/- 9,999,999 command units
Dwell Time		0 to 100 sec
I/O Allocation Type		X + Y W (4 registers = 64 points occupied)
Parameter Data Save		EEPROM (max. writing – 100,000)
Current Consumption	Internal 5VDC	700 mA typical (770ma max.)
	External 24VDC	200 mA or less

Input/Output

ITEM		SPECIFICATION	
Internal Input	Limit Switch/ Servo Interface Input	Type of Signal	Limit Switch Input Servo Interface Input
		Input Voltage	12/24VDC 24VDC
		Input Current	10mA typical @ 24VDC
		ON/OFF Voltage	ON: 9.6V minimum OFF: 3.2V maximum
		ON/OFF Delay	5ms or less
	Feedback Pulse/Z-Phase Input	Input Voltage	5VDC
		Input Current	16mA typical
		ON/OFF Voltage	ON: 4.0V minimum OFF: 1.2V maximum
External Output	Pulse Output	Output Mode	CW/CCW pulses or PLS+DIR (pulse/direction)
		Output Method	Open collector (5 to 24VDC, 50mA max.) or Differential output (RS485 equiv., 30mA max.)
		ON/OFF Delay	2 μ s or less
		ON Duty	40% – 60% (@ 30 kpps)
	Others	Output System	Open collector (5 – 24VDC, 50mA max.)
		ON/OFF Delay	2 ms or less

Specifications subject to change without notice

For more information, please contact Industrial Indexing Systems at:

626 Fishers Run, Victor, NY 14564

Phone: (585) 924-9181

Fax: (585) 924-2169

Email: info@iis-servo.com

Web: www.iis-servo.com