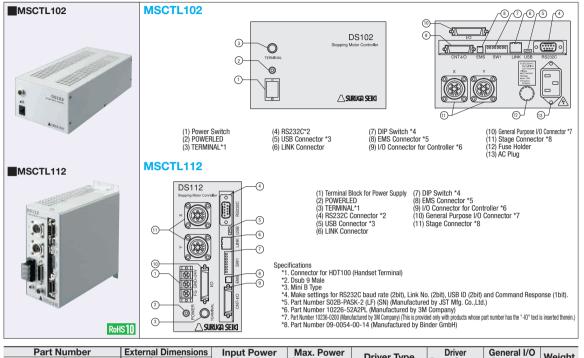
CONTROL INSTRUMENTS FOR MOTORIZED STAGES **Peripherals for Motorized Stages**

Features: Compact and lower priced controller incorporating the 2-Axis driver for driving the 5-Phase Stepping Motor (0.75A/Phase).



Part Number		External Dimensions			Input Power	Max. Power	Driver Type	Driver	General I/O	Weight
Туре	No.	W	D	н	Supply	Consumption	Driver Type	Rated Current	Connector	weight
MSCTL	102 102-IO		300	90	AC100~240V±10% 50/60Hz	70W or less	Normal (Full/Half)	0.75A/Phase	- Provided	2.2kg
	102-MS 102-IO-MS						Micro Step (16 steps)		- Provided	
	112 112-IO	70	165	155	DC24V±10%	2.5A or less	Normal (Full/Half)		- Provided	- 1.2kg
	112-MS 112-IO-MS	105	155	D624V±10%	2.5A OF IESS	Micro Step (16 steps)		- Provided	- 1.2Kg	

* For XMSG, XYMSG, ZMSG, if the 24V option is selected for the sensor voltage, the MSCTL102/112 controller is not compatible. If you purchase any of these Series, select the 5V Sensor Voltage option

Controller Performance Specifications

Number of Control Axes	2
Coordinate Setting Range	±99,999,999pls
Speed Setting Range	1~999,999pps
Pulse Rate Rise Setting Range	1~9,999pps
Acceleration/Deceleration Time Range	1~9,999ms
Mechanical Limit	2 for Each Axis: CW/CCW Direction (Input logic reversal is possible)
Near Home Detection	1 for Each Axis (Input logic reversal is possible)
Home Detection	1 for Each Axis (Input logic reversal is possible)
Home Detection Method	12 Routine Types
Home Position	1 Point/Axis (Configurable freely within effective range)
External Communication I/F	R5232C: 4,800-38,400bps [D-SUB9 Pin Male] USB2:0: Compatible with Full/Low Speed only [USB Mini B Terminal] Control I/0: 9 Inputs (24VDC Opto-coupler Inputs), 12 Outputs (Open Collector Outputs)
Link	RS485 (It can externally control up to 3 stages and up to 6 axes in daisy chain.)
Programming	8 Programs (100 Steps/Program; Starts and stops by control I/O signals)
Teaching	64 Points (positioning is commendable from signal I/0)
Interpolation	6-Axis Linear Interpolation (however, linear semi-interpolation between the linked stages is possible)
General Purpose I/O	(When a product with the "-IO" No. assigned is selected) Control I/O: 16 Inputs: 24VDC Opto-coupler Inputs, 12 Outputs: Open Collector Outputs
To facilitate the settings for Pro	ogramming/Teaching for MSCTL102/112 Series, use of HDT100 Handset Terminal or of the dedicated software, "MS

Controller Software	Part Number	Main Functions		
	MSSOFT	Manual Manipulation (Continuous Jog, Step Move, Absolute Value-based Move, Homing) Teaching		
	Microsoft®Windows®This is the software intended to set up or control the motor controller MSCTL102/112 plugged to the USB or RS232C port on Mi- crosoftR WindowsR. This software has capability of controlling up to 6 axes. Supported OS: Microsoft® Windows® 2000 / XP / 7 / 8 (* ForeWindows®)	Edition/Uploading/Downloading of Stored Program Monitoring / Forced Outage of General Purpose I/O Port		
Ordering Part Number Example MSCTL102	Days to Ship			

