




Please, refer to website for current Pricing and Lead Time

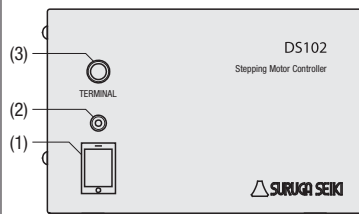
# Controllers for Automatic Stages/Controller Software/Cables

Controllers to easily control motorized stages are newly available.

**Controller for Automatic Stages** RoHS

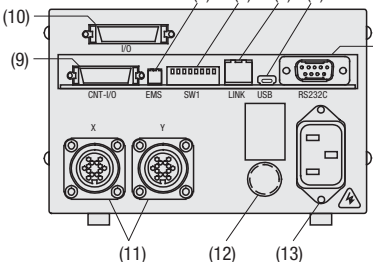


**MSCTL102**  
•Front Panel



(1) Power Switch  
(2) POWER LED  
(3) TERMINAL (Connector for Handset Terminal HDT100)

•Rear Panel



(4) RS232C (Specification: Dsub 9P Male) (9) I/O connector for controller  
(5) USB connector (Mini B type) (10) General I/O connector  
(6) LINK connector (11) Stage connector  
(7) DIP Switch (12) Fuse Holders  
(8) EMS connector (13) AC Inlet

**Basic Specifications**

External Dimension	140(W)x300(D)x90(H) mm
Operating Environment	0~40°C, 20~80% RH (No dew)
Storage Environment	-20~60°C, 20~80% RH (No dew)
Input Power Supply	AC100~240V±10%, 50/60Hz

**Driver Performance Specification**

Driving Method	Standard (Full/Half Duplex)
Rated Current	0.75A/Phase

**Functions**

Return to Origin	1 point/axis (configurable freely within effective range)
Link	External control up to 3 units, 6 axis with MSLINK (link cable) is possible
Programming	8 programs (100 steps/program; Starts and stops by I/O controller)
Learning	64 points (positioning is possible by I/O controller)
Interpolation	2-axis linear interpolation (linear interpolation between linked equipments is not possible)

**Controller Performance Specification**


Number of Control Axes	2
Coordinate Setting Range	±99,999,999pls
Driving Speed Setting Range	1~999,999pps
Rate of Rise Setting Range	1~9,999pps
Acceleration/Deceleration Time Range	1~9,999ms
Mechanical Limit	2 of each axis CW·CCW direction (Logic conversion convention is possible)
Proximity Origin Detection	1 of each axis (Logic conversion convention is possible)
Origin Detection	1 of each axis, 12 method (logic convention possible)
External Interface	RS232C: 4800~38400bps USB2.0: Applicable to FULL/Low Speed only DIO: 9 x 24V opto-isolated inputs & 12 x open collector outputs
Max. Power Consumption	60W (When AC100V)
Tare	2.3kg

Part Number	Unit Price	Qty. 1~9		Part Number	Days to Ship	8 Days	Non-Returnable P.92
MSCTL102	1300.00						

For larger quantity orders "Days to Ship" may differ from published catalog term. P.91

Alterations	Part Number	(MS)	Alteration Code	Driving Method Alteration
	MSCTL102	- MS		MS
Details				Switches driving method for controller to Microstep (no changes to appearance and dimensions).
Price Adder				250.00

**Controller Software** RoHS




**MSSOFT**

•Software to configure and control the controllers connected to PCs via USB or MSRS232C on Microsoft® Windows.  
Applicable OS: Microsoft® Windows 2000/XP

[Main Functions]

- Manual driving (continuous driving, stepwise driving, axis driving, return to origin)
- Learning function
- Edit of incorporated program, upload and download

**Cable for Controllers** RoHS



**MSLINK**

•For applications where multiple controllers (MSCTL102) are linked and controlled on 4 or 6 axes.  
MSLINK2-0.5: For 2 connectors (Cable length: 0.5m)  
MSLINK3-0.5: For 3 connectors (Cable length: 0.5m)

Part Number	Unit Price	Qty. 1~9		Part Number	Days to Ship	8 Days	Non-Returnable P.92
MSSOFT	-	50.00					
MSLINK	2-0.5	21.00		MSLINK2-0.5			
	3-0.5	24.00					


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# Handset Terminal/Cables

Feature: Enables "plug & play" of motorized stages by connecting to controllers.

**Handset Terminal** RoHS

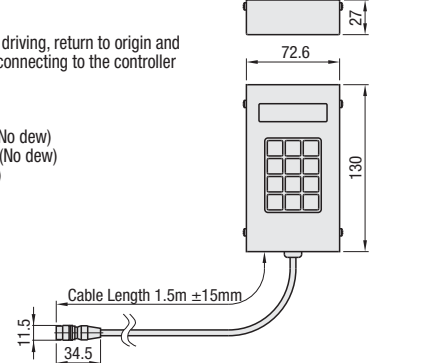


**HDT100**

Operations such as continuous driving, stepwise driving, return to origin and program execution can be remote controlled by connecting to the controller (MSCTL102).

**Basic Specifications**

- Operating Environment: 0~40°C, 20~80% RH (No dew)
- Storage Environment: -20~60°C, 20~80% RH (No dew)
- Power Supply: DC24V (Supplied from controller)
- Weight 0.3kg




Part Number	Unit Price	Qty. 1~9
HDT	100	300.00

	Order Example	Part Number	HDT100		Days to Ship	8 Days	Non-Returnable P.92
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Feature: Can be used as cable to make connection with external control devices.

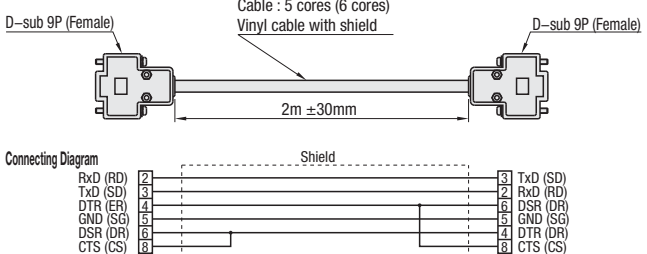
**RS232 Cables** RoHS



**MSRS232C**

Cable : 5 cores (6 cores)  
Vinyl cable with shield

2m ±30mm



**Basic Specifications**

- Interface: RS232C
- Connector to PC: D-sub 9P
- Cable Length: 2m


Part Number	Unit Price	Qty. 1~9
MSRS232C	66.00	

	Order Example	Part Number	MSRS232C		Days to Ship	8 Days	Non-Returnable P.92
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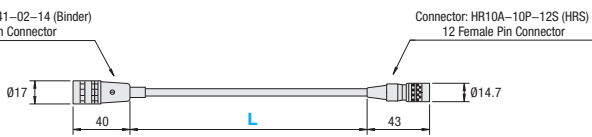
Feature: Cable to adjust distances between motorized stages and controllers. Length can be selectable according to the condition.

**Cable for Automatic Stages** RoHS



**MSCB**

Connector: 09-0341-02-14 (Binder) 14 Male Pin Connector  
Connector: HR10A-10P-12S (HRS) 12 Female Pin Connector



Controller Side Terminal Function	Color	Stage Side Terminal Function
Motor lead (Blue)	Blue	1 Motor lead (Blue)
Motor lead (Red)	Red	2 Motor lead (Red)
Motor lead (Orange)	Orange	3 Motor lead (Orange)
Motor lead (Green)	Green	4 Motor lead (Green)
Motor lead (Black)	Black	5 Motor lead (Black)
CWLS Input	Brown	6 CWLS Output
CCWLS Input	Yellow	7 CCWLS Output
NORG Input	Purple	8 Sensor Power Supply (DC5V-)
ORG Input	Gray	9 Sensor Power Supply (DC5V+)
Sensor Power Supply (DC5V+)	White	10 ORG Output
Sensor Power Supply (DC5V-)		11 Sensor Power Supply (DC5V-)
Electromagnetic Brake Power Supply (DC24V+)		12 Frame Ground
Electromagnetic Brake Power Supply (DC24V-)		
Frame Ground		

\*When XMSG·XYMSG·ZMSG is connected, ORG2 sensor does not function. Dotted line represents shields. Connect shields to U pins and 12 pins. Insulator Sheath : PVC

Part Number	Unit Price	Qty. 1~9
MSCB	2	100.00
	4	120.00
	6	200.00

	Order Example	Part Number	MSCB4		Days to Ship	8 Days	Non-Returnable P.92
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