

Opto-Mechanics

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Remote Actuator Remote Controller

SGDC SRC

SGDC







Application Systems It is a low cost actuator equipped with a DC motor of a small size and high thrust force. It is compatible with micrometer head using the manual stage of Sigma Koki and can be easily Optics & Optical Coatings

automated.

- A customer can remove the micrometer head on its own and replace with the remote actuator. • It is possible to select the movement amount of 13mm and 25mm depending on the application.
- Since USB interface is a standard feature, it can easily be operated from the PC.
- Since the remote control is possible, it can also be used in a hard place to work as well as a narrow place.
- The speed can be adjusted while driving. * Adjust by variable speed knob and I/O



- ▶ When replacing the micrometer head with the remote actuator, micro nut is required in order to remove the micro. Please contact our international Sales Division, if the micro nut is required.
- ▶ Please be careful when handling cable. Shock, compression, bending, twisting, tensile bring to the disconnection of the cable.



Micrometer Heads

Differential Micrometer Heads

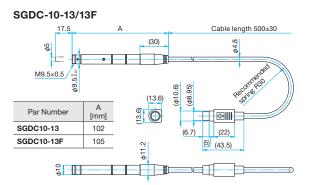
Fine-pitch Screws

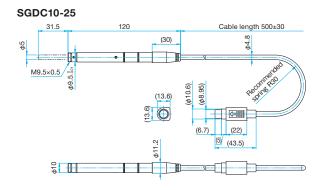
Remote

PKA

ACT

Outline Drawing





Specifications			
Sensitivity (resolving power)	Under 0.1µm for reference		
Lead of Screw	M3 P=0.5mm		
Backlash	<0.03mm		
Motor Type	DC motor (DC6V)		
Temperature of Operation	5 – 40°C		
Ambient Humidity	20 - 80%RH (no condensation)		
Length of Cable	0.5m		

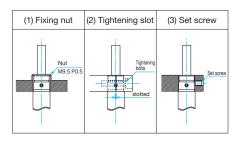
Specifications				
Par Number	Travel [mm]	Travel Speed*1 [mm/s]	Thrust Force*2 [N]	Weight [kg]
SGDC10-13	17.5	1	>29.5 (3kgf)	0.06
SGDC10-13F	17.5	0.2	>68.6 (7kgf)	0.06
SGDC10-25	31.5	1	>29.5 (3kgf)	0.08

1 It is the guaranteed value for maximum speed. The speed can be adjusted

*2 It is the guaranteed value at the maximum speed setting on the controller. Please be careful that the maximum thrust force can be over 20kgf.

Method of fixation

There are three methods of fixing for the actuator. When installing the unit, we recommend Fixing Nut method with the nut (M9.5×0.5).



Mounting methods (ex. TSD-601S)

Compatible with most manual translation stages



Fixing a stage to tighten the Clamp screw of the stage.
 Use the Allen wrench and remove the bracket from the stage.



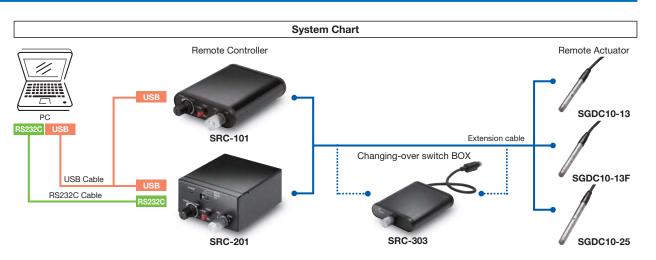
Remote actuator is inserted and it fixes with Set screw and Nut. Please attach to direction of motor cable or twist of cable carefully.







Please attach a stage and an actuator in parallel



Option Extension cable

MDC-4-2/3/5 (6.7) (5) (8.5) (14) (41.5) (5.5) (12.6) (12.

Specifications				
Par Number	Product Name	Length of Cable [m]		
MDC-4-2	Extension cable	2		
MDC-4-3	Extension cable	3		
MDC-4-5	Extension cable	5		
USB/MINI-B-2	USB cable	2		

SRC





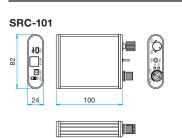
42.25

26 45.7 (25)

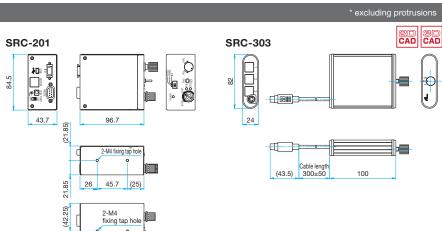


RoHS CE Catalog W8017

Outline Drawing



Specifications for SRC-101/201				
Number of Controlling Axis	1 axis			
Source Voltage	DC6V			
Apparent Power	30VA			
AC adaptor	AC100 - 240V ±10%			
Drive System	PWM Control			
Limit Sensor	Overload Detection Style			
Motor type	DC motor (DC6V)			
Temperature of Operation	5 – 40°C			
Storage Temperature	20 – 80%RH (no condensation)			
Control Switch	-20°C - 60°C			
Control Switch	Shift Transmission,			



Specifications					
Par Number	Interfaces	Control Signals	Weight [kg]		
SRC-101	USB	_	0.15		
SRC-201	USB, RS232C	Input Signals 6, Output Signals 4	0.38		
SRC-303	_	_	0.15		

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