

Single Axis Robots RSDG2 - Rod Type with Support Guide



CAD Data Folder Name: 07_Actuator

	Part Num	ber		Selection									
Type	1 Lead (mm)	2 With or w/o Brake (1)	Motor Mounting Direction	4 Controller (2)	6 I/O Module	6 Cable Length (m)	7 Stroke (mm)						
	02			Deint Control: Od	NPN: N	1							
RSDG2	W/o Brake: Leave blank With Brake: B	Straight: Leave Blank Top Mounting: U	Point Control: C1 Pulse Control: P1 (DC24V ±10%)	PNP: P CC-Link: C	5	50~300 (50mm Increment)							
	12			(DG24V ±10%)	DeviceNet: D	(Flexible Cable)	,						

(🖭) Choose the "With Brake" option for use in vertical applications. (🖭) When the pulse train type controller is selected, the I/O type selection is not required.

		isterio / maso												
				Motor	Mounting [Direction: S	Straight	Motor Mounting Direction: U						
	Type	Dimensions / Mass			Stroke	(mm)		Stroke (mm)						
			50	100	150	200	250	300	50	100	150	200	250	300
		L ₁ (mm)	162.5	212.5	262.5	312.5	362.5	412.5	162.5	212.5	262.5	312.5	362.5	412.5
	RSDG2	L(mm)	270.5	320.5	370.5	420.5	470.5	520.5	209.5	259.5	309.5	359.5	409.5	459.5
		Mass (kg)(Note 6)	2.0	2.4	2.7	3.0	3.3	3.7	2.2	2.6	2.9	3.2	3.5	3.9

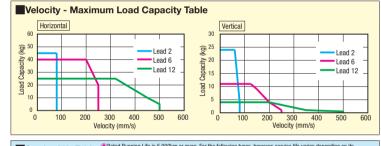
The brake adds 0.2 kg to the total mass.

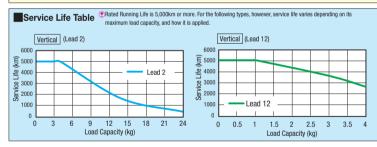
A Note

Power interruption circuit is not provided in this controller in order to provide maximum flexibility for

customer specific safety scheme. Please he sure to provide an external nowe interruption circuit and form an emergency stop circuit. For Circuit examples see P109.

- A1. When activating an actuator using Support Software or Handset Terminal, invalidate Option Parameter (No. 80). (Option Valid = I/O Terminal Valid, Option Invalid = I/O Terminal Invalid). Then turn the serve status "ON" and operate the homing procedure. After the completion of homing, start the operation by turning on "Operation". Q2. LED light is on. Is there a controller defect?
- A2. Blue: PWR (OFF: Control Power Shutoff, Blink: Servo OFF, ON: Servo ON), Red: ERR (OFF: Control Power Shutoff / No Error Alarm, Blink: Error Alarm On (External Factor), ON: Error Alarm On (Internal Factor)
- Q3. Teaching cannot be conducted by via I/O.
- A3. To conduct teaching via I/O, the status needs to be ON for MANUAL Input and OFF for Interlock Input. Note that it does not function in the state of "Homing Incomplete"
- Q4. Is low-speed operation possible?
- A4. Possible, however, 10 to 20% of max. velocity is the limit depending on the lead.







Motor Mounting

	711010110	RSDG206B -	U -	C1	-	N -	- 3	-	200	- (G-E	
	Handset Terminal	Handset Terminal	Support Softwa	re	Support Software		I/O Cable		Cable for	daisy-chain conn	ection Instruction Manual	Main B
	Standard Specification	w/ Deadman's Switch	w/ USB Commu	ınication Cable	w/ D-Sub Commu	nication Cable		_			ME5: Body	
Alterations		Specifications		9	0	•			(KE3:Controller (C1) KE4:Controller (P1) Details P.120	
			, —				T: Controll	er C1		\smile		

Controller

Alterations		Specifications	Communication Specifications: RS232C	Communication Specifications: RS232C	T: Controller C1 TP: Controller P1	()	KE3:Controller (C1) KE4:Controller (P1) Detailser P.120		○ <u>8</u> 8 ○
Code	Н	D	S	R	T/TP	С	ME5/KE3/KE4	BC	HP
		Handset Terminal w/ Deadman's Switch is included.	Communication Cable is	included	Required for NPN/PNP	up to 16 controllers can be	Operation Manual is included.	plastic parts color to	2 plates are included for horizontal mounting. Specifications P.113

Stroke

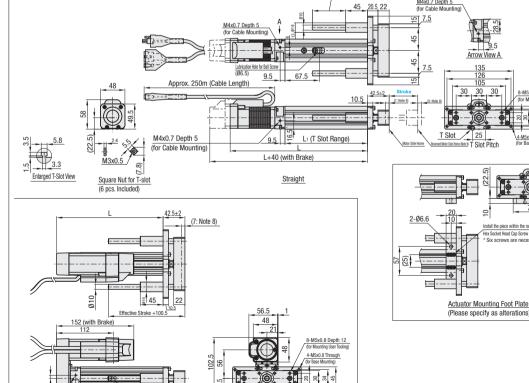
- For details on daisy-chain, see ▼ P.111, 113
 Please select the correct I/O cable type for the appropriate controller type.

When pl	When placing order, select part numbers and values by proceeding through Selection Steps 1 ∼ 7 .													
		Part Number (Type, 1 Lead, 2 With or w/o Brake)	-	3 Motor Mounting Direction	-	Controller	-	6 I/O Module	-	6 Cable Length	-	7 Stroke		
	Example	RSDG206B	-	U	-	C1	-	N	-	3	-	200	(Motor Mounting Direction: U)	
		RSDG206B			-	C1	-	N	-	3	-	200	(Motor Mounting Direction: Straight)	
		RSDG206B	-	U	-	P1			-	3	-	200	(Motor Mounting Direction: U, Controller: P1)	



Type	Lead					Rated Running	Lost Motion	Rod Non-Rotational	Stroke	Max. Velocity	Input Power	Maximum
Type	(mm)	Repeatability (mm)	Horizontal	Vertical	(N)	Life 1	(mm)	Accuracy (degrees)	(mm)	12(mm/sec)	Supply	Positioning Point
	02		45	24	600	5,000 km or More	0.1 or Less		FO 200	~80	DC24V ±10%	255 points
RSDG2	06	±0.02	40	11	300			±0.05	50~300 (50 Pitch)	~250		
	12		25	4	150				(30 FILCII)	~500	±1076	
<u></u>				u nu								

🐑 1. The Service life in the vertical use may vary depending on the load capacity. Please refer to the "Velocity - Maximum Load Capacity Table."



- (Note 1) Load can be applied only in axial direction. Please use externally mounted guides together to avoid application of radial loads on the rods. (Note 2) Reversed Motor Side Home cannot be set in case of Lead 2mm specifications
- (Note3) The cable should be fastened without excessive strains. (Note 4) The M4 hex-socket head screw can be utilized to fasten the cable (effective screw depth is 5mm).
- (Note 5) The minimum bending radius of the cable is 30mm. (Note 6) The brake adds 0.2 kg to the mass. (Note 7) Indicates the distance to the mechanical stopper

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L₁ (T Slot Range)

Motor Top Mount

Body Plastic Color Alterations | Actuator Mounting