

Single Axis Robots RSDG3 - Rod Type with Support Guide -



See notes on CE Marking. P456

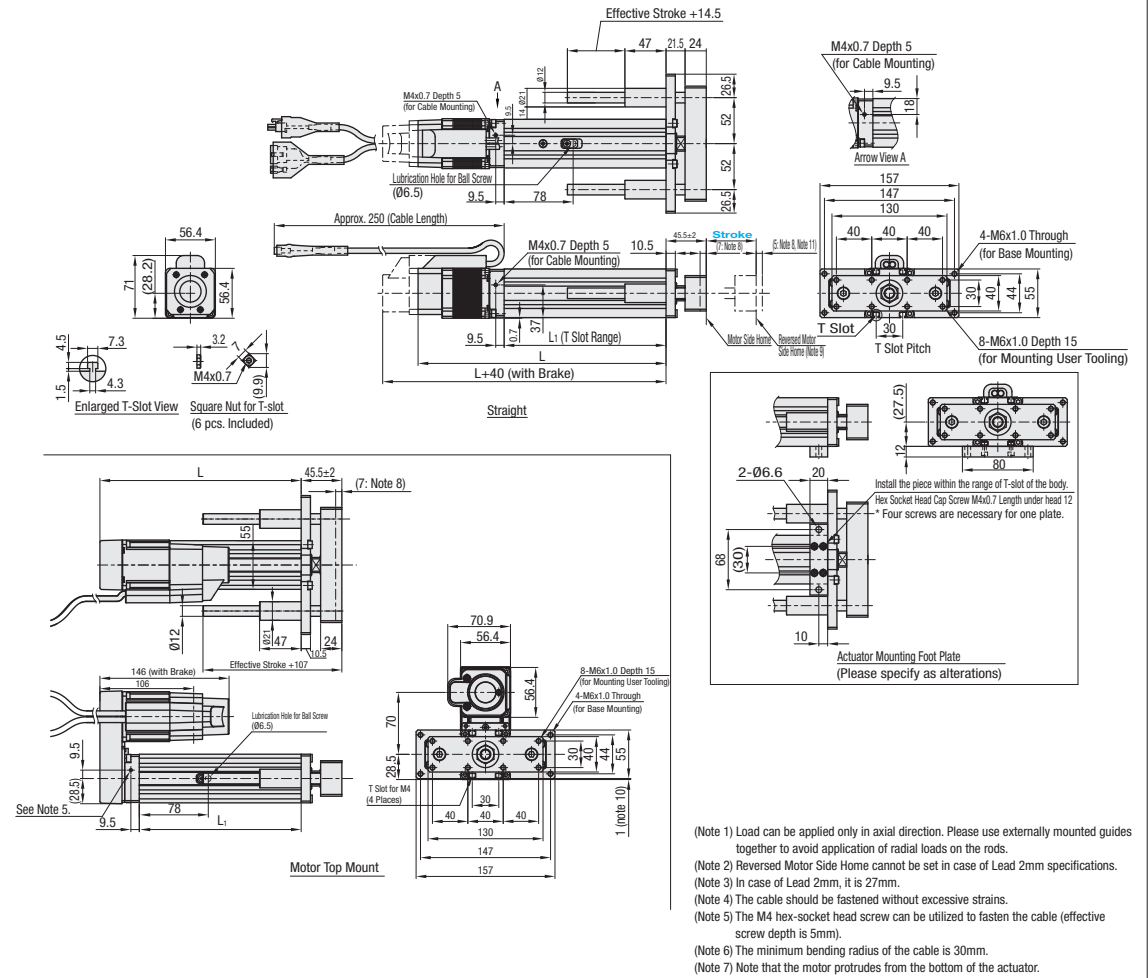


Controller Specifications P497-506

Standard Specifications FAQ P504

Type	Lead (mm)	Repeatability Positioning Accuracy (mm)	Max Load Capacity (kg)		Max. Push Force (N)	Rated Running Life ✱1	Lost Motion (mm)	Rod Non-Rotational Accuracy (degrees)	Stroke (mm)	Max. Velocity ✱2 (mm/sec)	Input Power Supply	Maximum Positioning Point
			Horizontal	Vertical								
RSDG3	02	±0.02	60	28.5	900	5,000km or More	0.1 or Less	±0.05	50~300 (50 Pitch)	~50	DC24V ±10%	255 points
	06		55	18.5	550					~150		
	12		50	8.5	250					~300		

1. The Service life in the vertical use may vary depending on the load capacity. Please refer to the "Service Life Table." 2. The maximum velocities may vary depending on the load capacity. Please refer to the "Velocity - Maximum Load Capacity Table."



Dimensions / Mass

Type	Dimensions / Mass	Motor Mounting Direction: Straight						Motor Mounting Direction: U					
		50	100	150	200	250	300	50	100	150	200	250	300
RSDG3	L ₁ (mm)	183	223	283	333	383	433	183	223	283	333	383	433
	L (mm)	280.5	330.5	380.5	430.5	480.5	530.5	227.5	277.5	327.5	377.5	427.5	477.5
	Mass (kg)	3.1	3.6	4.1	4.5	5	5.5	3.3	3.8	4.3	4.7	5.2	5.7

The brake adds 0.2kg to the total mass.

Part Number			Selection				
Type	Lead (mm)	With or w/o Brake (1)	Motor Mounting Direction	Controller (2)	I/O Module	Cable Length (m)	Stroke (mm)
RSDG3	02	None: Leave blank Included: B	Straight: Leave blank Top mounting: U	Point Control: C1 Pulse Control: P1 (DC24V ±10%)	NPN: N PNP: P CC-Link: C DeviceNet: D	1 3 5 10 (Flexible Cable)	50~300 (50mm Increment)
	06						
	12						

1) Choose the "Brake" option for use in vertical applications. 2) When the pulse train type controller is selected, the I/O type selection is not required.



Ordering Example	Part Number	Motor Mounting Direction	Controller	I/O Module	Cable Length	Stroke	
	RSD306B	- U	- C1	- N	- 3	- 200	(Motor Mounting Direction: U)
	RSD306B	-	- C1	- N	- 3	- 200	(Motor Mounting Direction: Straight)
	RSD306B	- U	- P1	-	- 3	- 200	(Motor Mounting Direction: U, Controller: P1)

Robot Body Price

Part Number	Unit Price 1 ~ 3 pc(s).					
	Stroke (mm)					
	50	100	150	200	250	300
RSDG3						
RSDG3 B						

Controller Price

Type	I/O Module	Unit Price 1 ~ 3 pc(s).
C1	N	
	P	
	C	
	D	
P1	-	

Cable Price

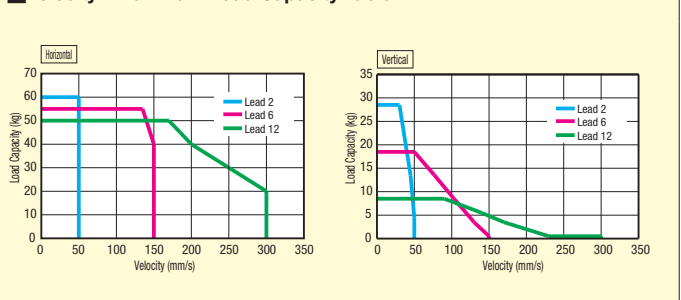
Cable Length (m)	Unit Price 1 ~ 3 pc(s).
1	
3	
5	
10	



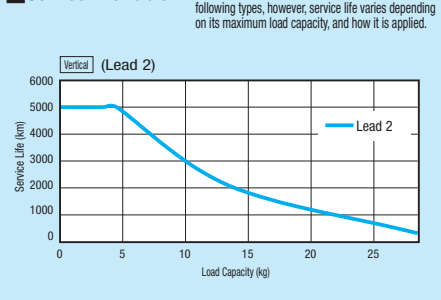
Note

Power interruption circuit is not provided in this controller in order to provide maximum flexibility for customer specific safety scheme. Please be sure to provide an external power interruption circuit and form an emergency stop circuit. For Circuit examples, see P503

Velocity - Maximum Load Capacity Table



Service Life Table



Alterations	Part Number	Controller Type	I/O Type	Cable Length	Stroke	(G, E...etc.)
	RSD306B	- C1	- N	- 3	- 200	- G-E
Alterations	Handset Terminal Standard Specification	Handset Terminal w/ Deadman's Switch	Support Software w/ USB Communication Cable	Support Software w/ D-Sub Communication Cable	I/O Cable	Cable for daisy-chain connection
	Handset Terminal is included. Specifications P503, 507	Handset Terminal w/ Deadman's Switch is included. Specifications P503, 507	Support Software w/ USB Communication Cable is included. Specifications P503, 507	Support Software w/ D-Sub Communication Cable is included. Specifications P507	T: Controller C1 TP: Controller P1	Length: 300mm
Code	H	D	S	R	T/TP	C
Spec.	Handset Terminal is included. Specifications P503, 507	Handset Terminal w/ Deadman's Switch is included. Specifications P503, 507	Support Software w/ USB Communication Cable is included. Specifications P503, 507	Support Software w/ D-Sub Communication Cable is included. Specifications P507	I/O Cable is included. Required for NPN/PNP configurations. Specifications P507	A cable to connect multiple controllers. Up to 16 controllers can be connected. Specifications P507

For optional items, see P507 1) It is more economical to order the optional items as alterations than purchasing them individually. 2) Entering point data requires the handy terminal or the support software. 3) An I/O Cable is required for Parallel Communication I/O Control. 4) For details on daisy-chain, see P505 5) Please select the correct I/O cable type for the appropriate controller type.