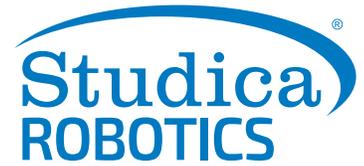
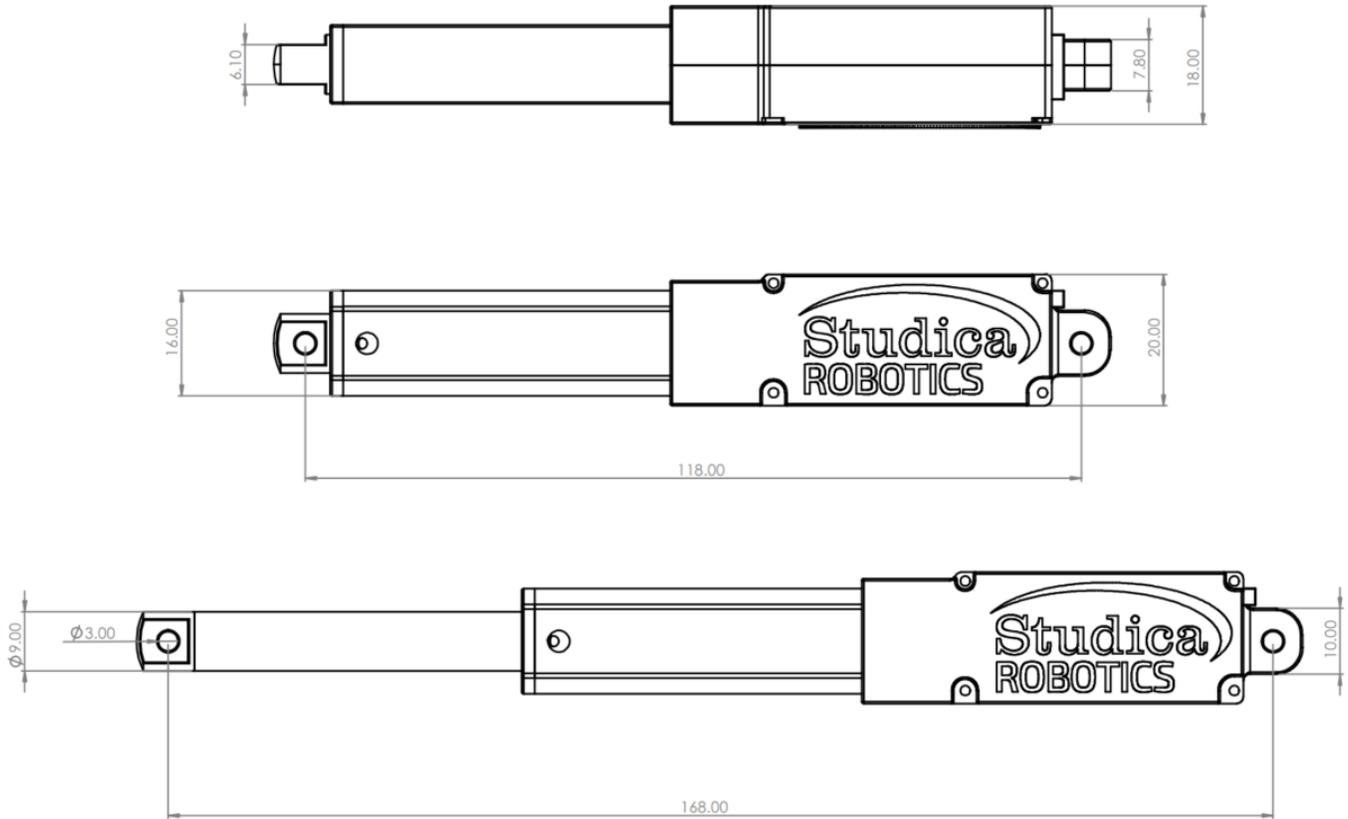


# RC Linear Actuator



Part #		75010	75011		75013	75014	
Control Signal		PWM					
Frequency		50 Hz					
Voltage		6VDC					
Stroke Length		50mm				140mm	
Gear Ratio		63:1	150:1		63:1	150:1	
No Load	Speed	13mm/s	6mm/s		13mm/s	6mm/s	
	Current	150mA				150mA	
Max Efficiency Point	Load	30N	75N		30N	75N	
	Speed	11mm/s	5mm/s		11mm/s	5mm/s	
	Current	360mA				360mA	
Peak Power Point	Load	66N	170N		66N	170N	
	Speed	8mm/s	3.3mm/s		8mm/s	3.3mm/s	
	Current	560mA				560mA	
Max Force	Load	95N	190N		95N	190N	
	Speed	5mm/s	2.5mm/s		5mm/s	2.5mm/s	
	Current	850mA	820mA		850mA	820mA	
Stall Torque		150N	325N		150N	325N	
Stall Current		1A				1A	
Max Static Force		100N	190N		100N	190N	
Weight		65g				96g	
Stroke Repeatability		±0.5mm					
Max Side Load		10N					
Operating Temperature Range		-10°C ~+50°C					
Storage Temperature Range		-10°C ~+50°C					
Wire Length		340mm					
Connector		2.54mm Dupont 3-Pin Female					

## 50mm Stroke Length Drawing

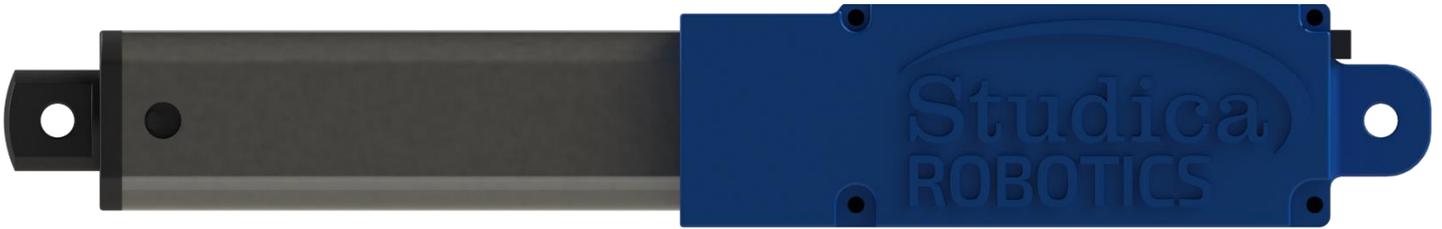


## 140mm Stroke Length Drawing



## Pulse Width Range

The linear servos have a different pulse width range than that of normal servos. The range of a normal servo is generally  $500\mu\text{s}$ . to  $2500\mu\text{s}$ . The linear servo has a standard range of  $900\mu\text{s}$  to  $2100\mu\text{s}$ . However, due to tolerances in control, this range generally needs to be manually calibrated per linear servo.



At full retraction, the pulse width should be around  $900\mu\text{s}$ . Observational measurements have found this value to be between  $850\mu\text{s}$  and  $1000\mu\text{s}$ .



At full extension, the pulse width should be around  $2100\mu\text{s}$ . Observational measurements have found this value to be between  $1890\mu\text{s}$  and  $2150\mu\text{s}$ .