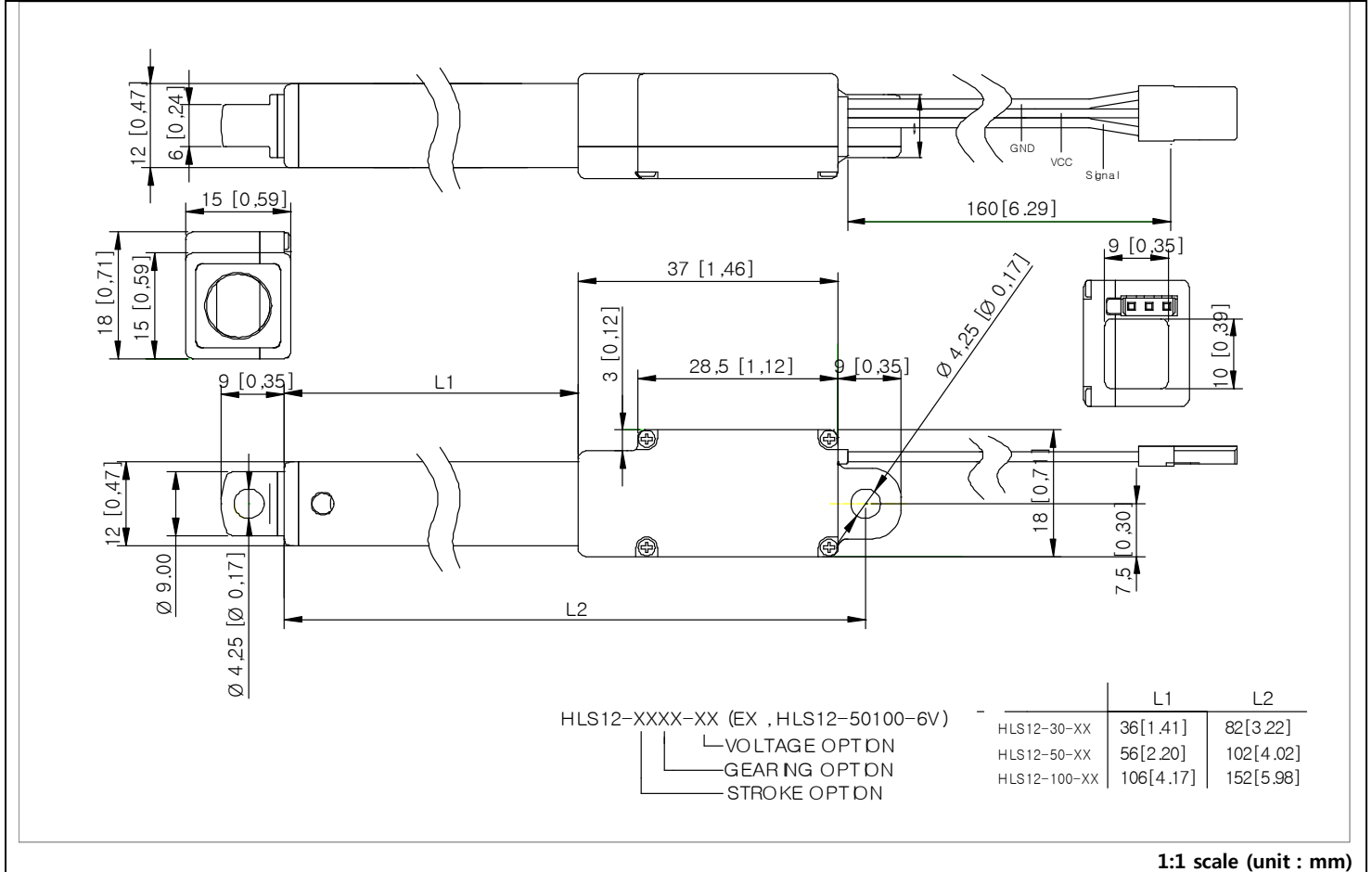


HLS12 General Specification.



LINEAR SERVO -Lead 5mm- SERVO

Control System	Pulse Width Modulation(PWM)											
Operating Voltage Range	6.0V											
Motor Type	DC Cored											
Controller (MCU)	32Bits											
Lead Screw	LEAD 5mm											
Voltage	6.0V											
Gear Ratio	50:1			100:1			210:1			380:1		
No Load	Speed	25.0mm/s		13.0mm/s		6.1mm/s		3.3mm/s				
	Current	100mA										
Load Spec	Load	Speed	Current	Load	Speed	Current	Load	Speed	Current	Load	Speed	Current
Maximum Efficiency Pint	1.0kg (10N)	19.0 mm/s	200mA	1.7kg (17N)	13.0 mm/s	200mA	3.6kg (36N)	4.5 mm/s	200mA	6.5kg (65N)	2.5 mm/s	200mA
Peak Power Point	1.7kg (17N)	14.0 mm/s	300mA	3.1kg (31N)	7.0 mm/s	300mA	7.0kg (70N)	3.2 mm/s	310mA	10.0kg (100N)	1.9 mm/s	300mA
Max Force (Lifted)	2.2kg (22N)	6.65mm/s	400mA	4.2kg (42N)	0.0 mm/s	400mA	8.5kg (85N)	2.3 mm/s	400mA	15.0kg (130N)	1.2 mm/s	400mA
Stall Torque	2.5kg(25N)			4.2kg(42N)			10.0kg(100N)			18.0kg(180N)		
Stall Current	500mA											
Max Static Force	200N (above)											
Stroke SPEC	30mm			50mm			100mm					
Repeatability	±0.2mm			±0.3mm			±0.5mm					
Max Side Load (Extended)	40N			30N			15N					
Weight	34g (1.20oz)			40g(1.41oz)			56g (1.98oz)					
Outline Dimensions	82.0mm x 15.0mm x 18.0mm (3.23inch x 0.59inch x 0.71inch)			102.0mm x 15.0mm x 18.0mm (4.02inch x 0.59inch x 0.71inch)			152.0mm x 15.0mm x 18.0mm (5.98inch x 0.59inch x 0.71inch)					
Operating Temperature Range	-10°C ~ +50°C											
Vibrations at No Load	MIL-STD-810G 514.6C-VII											
Storage Temperature Range	-30°C ~ +80°C (-31°F ~ +176°F)											
Connector Wire Length	160mm(6.29in)											
Ball Bearing	F693 Flange bearing											
Case Material	Engineering Plastic & Hardened Metal											
Gear Material	Metal											



- This product should not be used directly on the human body for medical purposes.
- Do not use for war weapons.
- All specifications are subject to change without notice.

