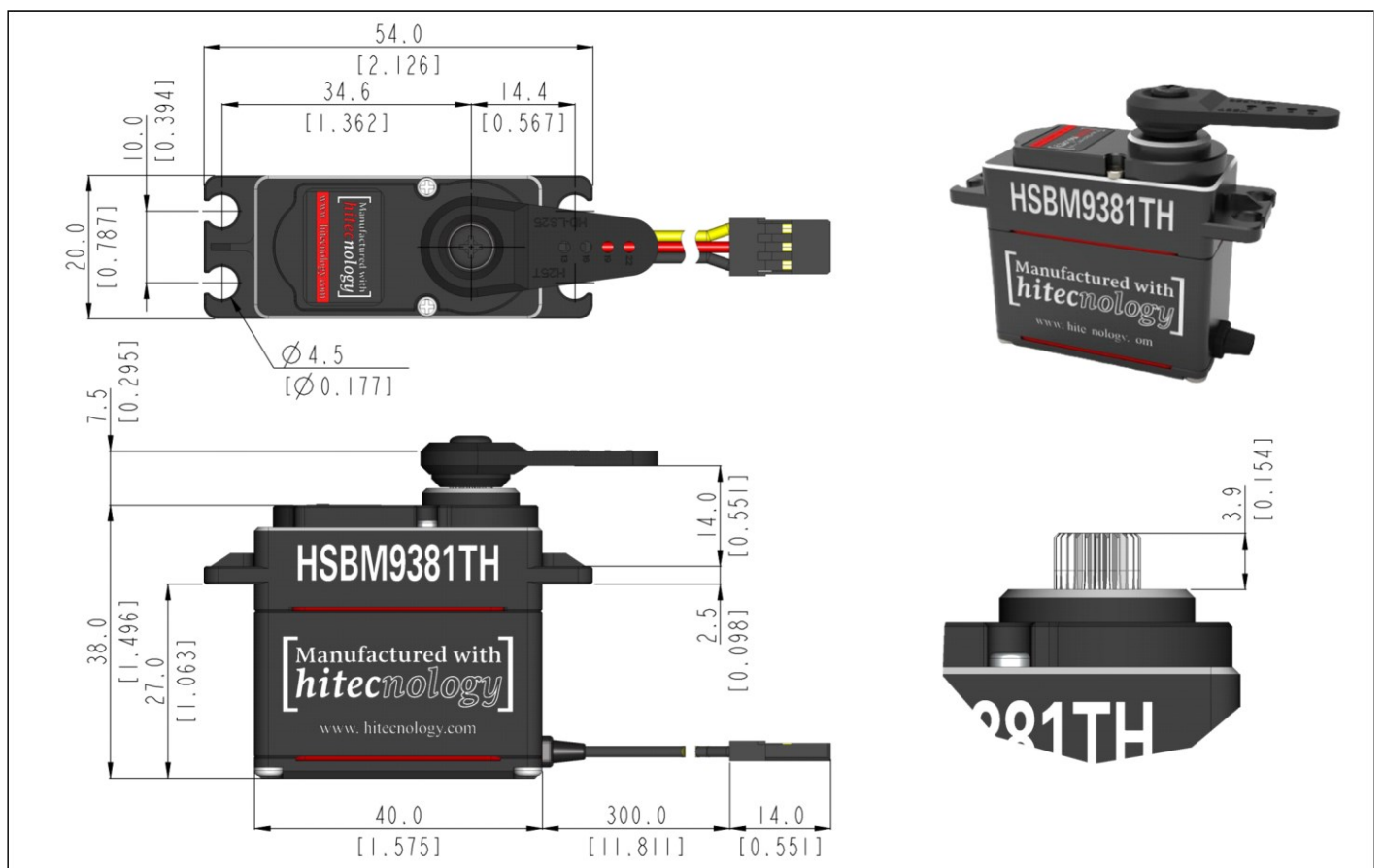


# HSB-M9381TH General Specification.



Control System	PWM		-
Position Sensor Type	Contactless Magnetic Encoder		-
Motor Type	BLDC		At the Max voltage, it is recommended to be used only for a short time duration.
Operating Voltage Range	4.0 ~ 8.4V		
Voltage	-	6.0V	7.4V
No Load Speed	-	0.17sec/60°	0.14sec/60°
Stall Torque	-	34.0kgf-cm (472.2 oz-in)	34.0kgf-cm (472.2 oz-in)
Peak Efficiency Torque	-	6.8kgf-cm (94.4 oz-in)	6.8kgf-cm (94.4 oz-in)
Standing Current	-	27mA	27mA
No Load Running Current	-	250mA	250mA
Stall Current	-	2,700mA	2,100mA
Deadband	-	1μs	1μs
Operating Travel	Default: ±60°, Programmable: Max 300° / Pulse Width: 900~2100μs(Center:1500μs)		-
Continuous Rotation	n/a		-
Operating Temperature Range	-20°C ~ +70°C (-4°F ~ +158°F)		-
Storage Temperature Range	-30°C ~ +80°C (-22°F ~ +176°F)		-
Connector Wire Length	300mm (11.811inch)		
Connector Wire Gauge	20AWG		
Dimensions	40.0mm x 20.0mm x 38.0mm (1.575inch x 0.787inch x 1.496inch)		General Tolerance ±0.1mm
Weight	78.0g (2.751oz)		Excluding the weight of Horn
Bearing Type	2 Ball Bearing		-
Case Material	Aluminum Alloy		-
Gear Material	1 Metal-Plastic & 3 Titanium Alloy Gears		-
Gear Train Backlash	Max 0.5°		-
Horn Gear Spline	25T(Ø6)		-
IP-Rating	IP54		-
Servo Amplifier Type	16bit Programmable Digital		-



1:1 scale (Unit : mm[inch])

- This product should not be used directly on the human body for medical purposes.
- This product should not be used for war weapons.
- All specifications are subject to change without notice.
- Be careful as strong magnetic fields may cause malfunction of the product.

