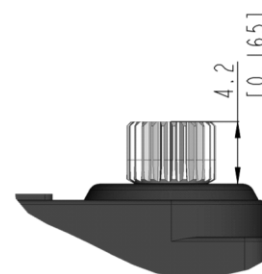
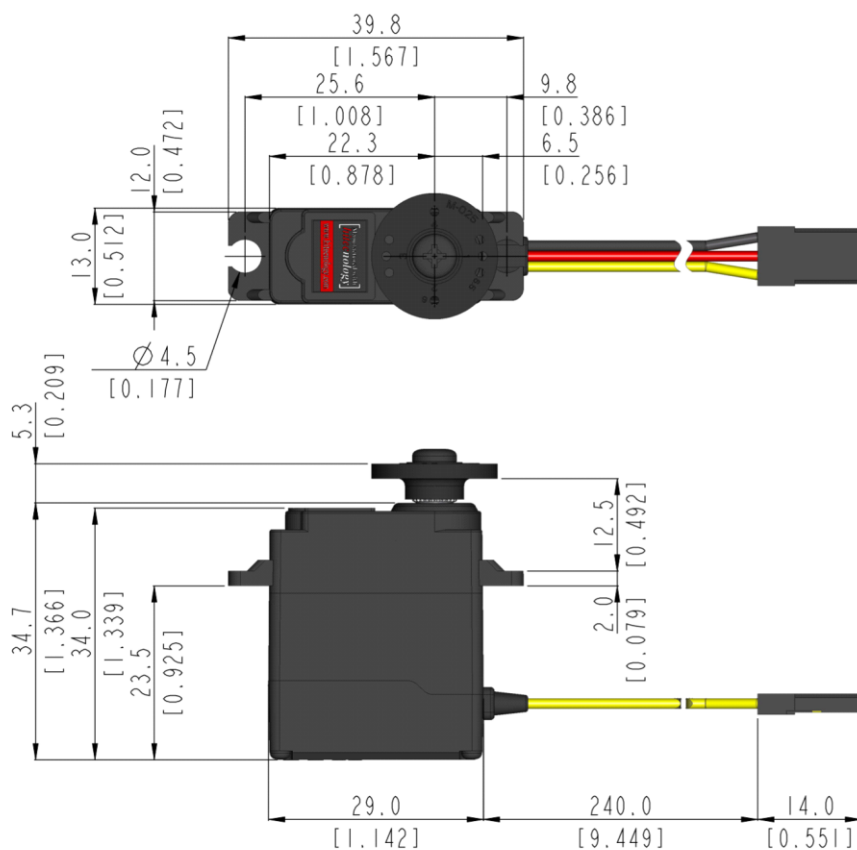


MDB89MH General Specification.



Control System	PWM/TTL(Half Duplex)			-
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	3.5 ~ 8.4V			
Voltage	-	6.0V	7.4V	At 25°C(±10%), 45%RH(±10%) <u>measurement environment</u>
No Load Speed	-	0.17sec/60°	0.13sec/60°	
Stall Torque	-	10.5kgf-cm (145.82oz-in)	12.5kgf-cm (173.59oz-in)	
Peak Efficiency Torque	-	2.1kgf-cm (29.16oz-in)	2.5kgf-cm (34.72oz-in)	
Standing Current	-	30mA	30mA	
No Load Running Current	-	150mA	170mA	
Stall Current	-	2,400mA	3,000mA	
Deadband	-	2μs	2μs	
Operating Travel	Default: ±60°, Programmable: Max 175° / Pulse Width: 900~2100μs(Center:1500μs)			-
Continuous Rotation	n/a			-
Operating Temperature Range	-20°C ~ +60°C (-4°F ~+140°F)			-
Storage Temperature Range	-30°C ~ +80°C (-22°F ~+176°F)			-
Connector Wire Length	240mm (9.449inch)			
Connector Wire Gauge	22AWG			
Dimensions	29.0mm x 13.0mm x 34.0mm (1.142inch x 0.512inch x 1.339inch)			General Tolerance ±0.1mm
Weight	33.6g (1.185oz)			Excluding the weight of Horn
Bearing Type	2 Ball Bearing			-
Case Material	Engineering Plastic			-
Gear Material	5 Metal Gears			-
Gear Train Backlash	Max 0.5°			-
Horn Gear Spline	25T(Ø6)			-
IP-Rating	IP4X			-
Servo Amplifier Type	32bit Programmable Digital			-



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

- This TARGET spec sheet is intended for temporary reference purposes only.
- Be careful as strong magnetic fields may cause malfunction of the product.

