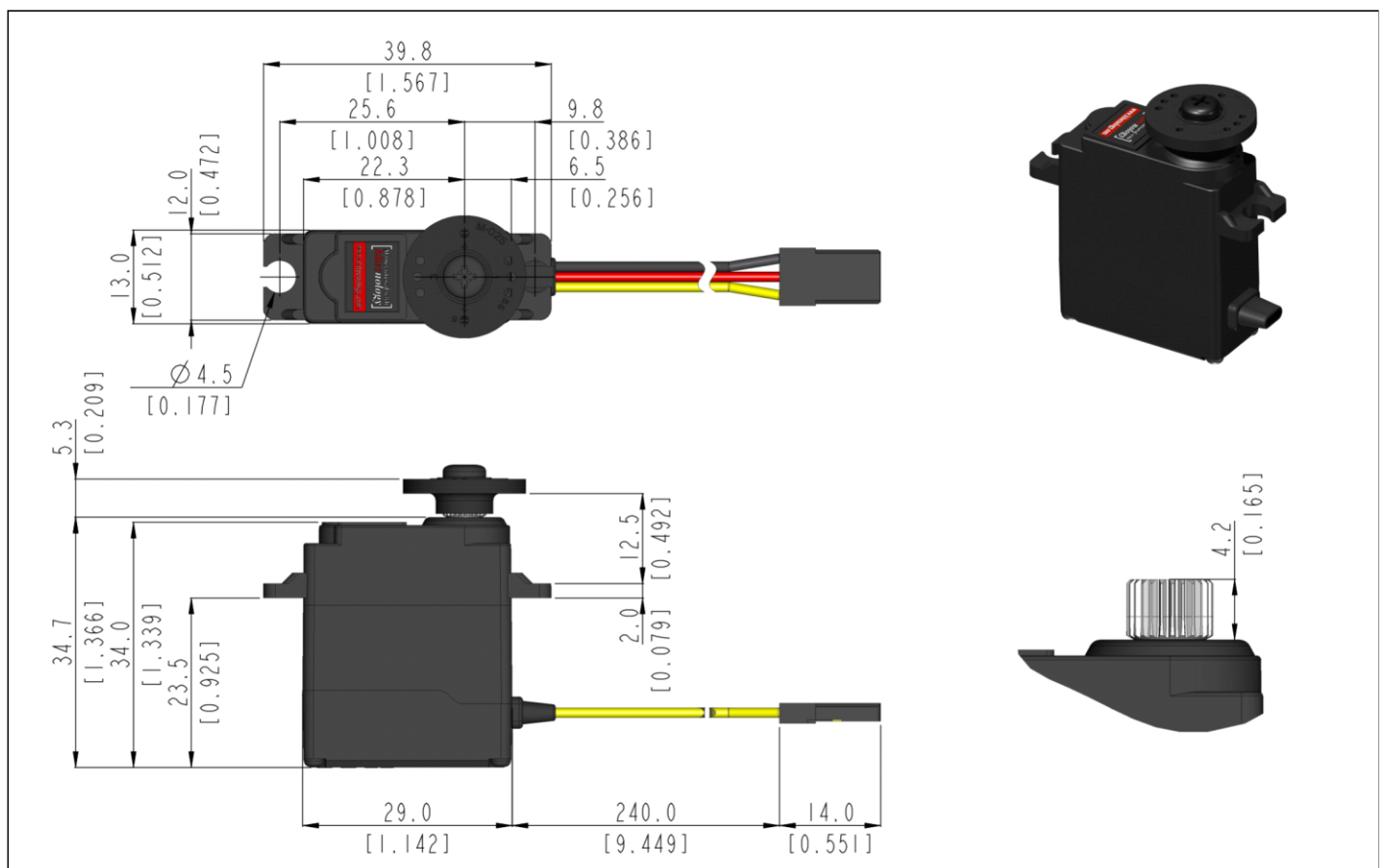


MDB89MH General Specification.



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
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 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.

