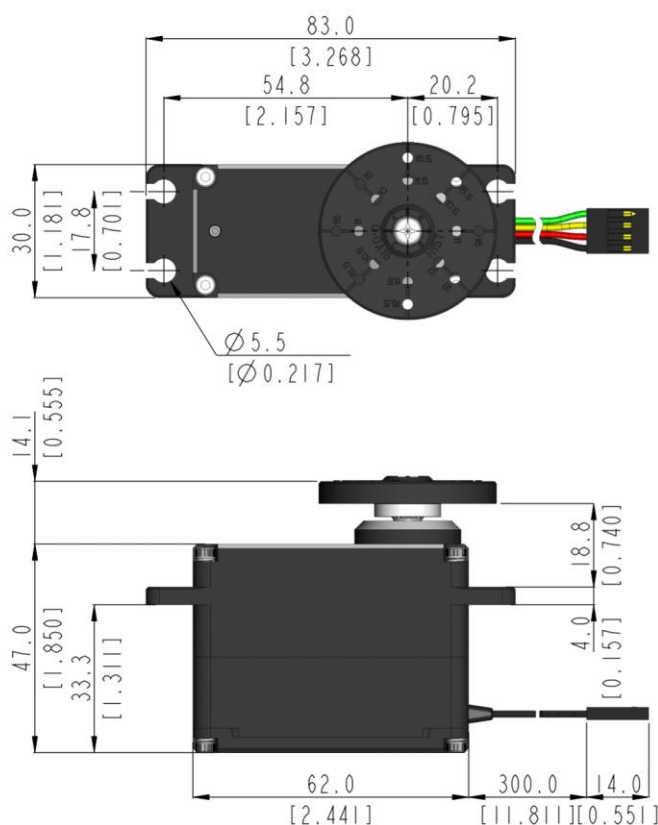


MDB1200WP-DroneCAN General Specification.



Control System	DroneCAN (UAVCAN v0)			-
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	At 25°C(±10%), 45%RH(±10%) <u>measurement environment</u>
No Load Speed	-	0.22sec/60°	0.18sec/60°	
Stall Torque	-	100.0kgf-cm (1,388.74oz-in)	110.0kgf-cm (1,527.61oz-in)	
Peak Efficiency Torque	-	20.0kgf-cm (277.75oz-in)	22.0kgf-cm (305.52oz-in)	
Standing Current	-	30mA	30mA	
No Load Running Current	-	700mA	750mA	
Stall Current	-	5,000mA	4,300mA	
Deadband	-	n/a	n/a	
Operating Travel	Servo Mode : ±60°(Default), ±150°(Programmable)			F/W v1.5 or Higher version
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	300mm (11.811inch)			
Connector Wire Gauge	20AWG			
Dimensions	62.0mm x 30.0mm x 47.0mm (2.441inch x 1.181inch x 1.850inch)			General Tolerance ±0.1mm
Weight	260.0g (9.171oz)			Excluding the weight of Horn
Bearing Type	9 Ball bearing & 2 Needle bearing			-
Case Material	Aluminum Alloy			-
Gear Material	5 Hardened Steel Gears			-
Gear Train Backlash	Max 0.5°			-
Horn Gear Spline	15T(Ø8)			-
IP-Rating	IP67			-
Servo Amplifier Type	32bit Programmable Digital			-



3:5 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.

