

## ◁Performance data▷

	<u>MD1100WP</u>	
Control system	+PULSE WIDTH CONTROL 1500usec NEUTRAL	
Operating voltage range	11.1 V ~ 14.8V	
Operating temperature	-20°C ~ +60°C (-4°F ~ +140°F)	
Test voltage	At 11.1V	At 14.8V
Operating speed (At no load))	0.26sec/60°	0.19sec/60°
Stall torque	84.0kg-cm (1166.52oz.in)	110.0kg-cm (1527.58oz.in)
Idle current (At stopped)	90mA	90mA
Running current (At no load running)	550mA	500mA
Stall current	6500mA	8000mA
Dead band width	2usec	2usec
Input signal	+5.0V 1500usec±400usec	
Operating travel	±40° /ONE SIDE PULSE TRAVELING 400usec	
Direction	CLOCK WISE/PULSE TRAVELING 1500 TO 1900usec	
Motor type	DC CORED CARBON BRUSH, 5 POLES	
Potentiometer type	MAGNET ENCODER	
Amplifier type	DIGITAL AMPLIFIER WITH MOSFET DRIVE	
Case dimensions	64.0 x 33.0 x 73.0mm (±0.2mm) (2.52 x 1.30 x 2.90in)	
Weight	363g (12.8oz) (±10%)	
Gear set	1 MPDG1 &, 3 HARDENED STEELS	
Ball Bearing	DUAL NEEDLE BEARING	
Horn gear spline	15 SEGMENTS / Ø8.0	
Gear train backlash	Max 0.5°	
Connector wire length	300mm(11.81in)	
Connector wire stand counter	80ea	
Connector	SIGNAL - 0.08x80(20AWG) POWER – 0.08x120	
Waterproof	IP67	

This data is just a reference, it does not guarantee, subject to change without notice. (Revision : A)

## <Environmental Test>

Temperature Test	-20°C ~ +60°C (-4°F ~ +140°F)
Durability Test	-
Vibration	IEC-60068-2-64
Shock	IEC-60068-2-29
Duration of the test in water	1M / 30min (IP67)
EMC	CE

## <Features>

High response & Programmable digital amplifier with mosfet drive

Magnetic Encoder

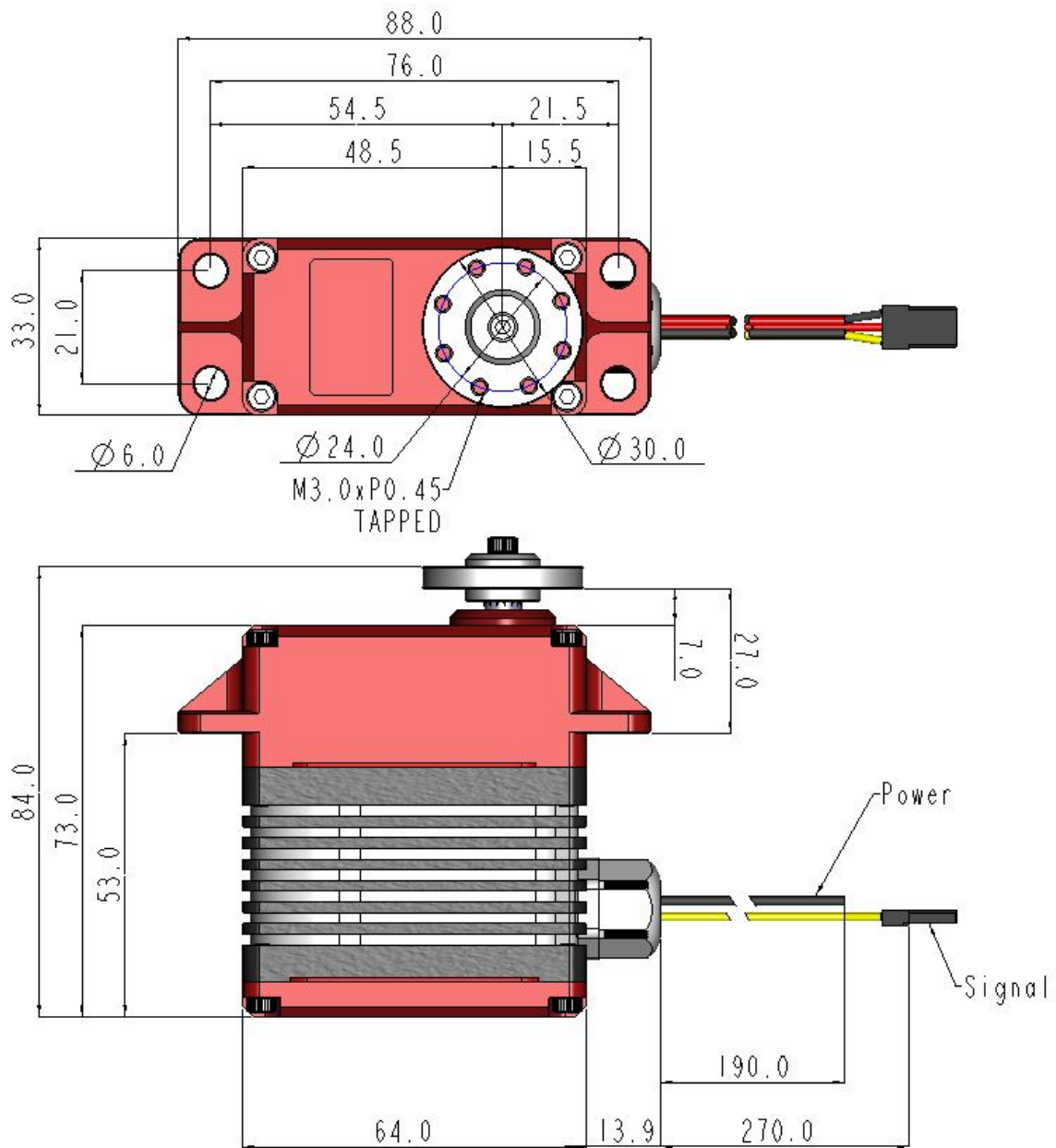
Durable aluminum alloy case & Steel gears with quad ball bearing

Waterproof & Dust resistance (IP67)

## <Applications>

Industry, UAV, Robotics & ETC.

## <Dimensions>



(UNIT : mm)