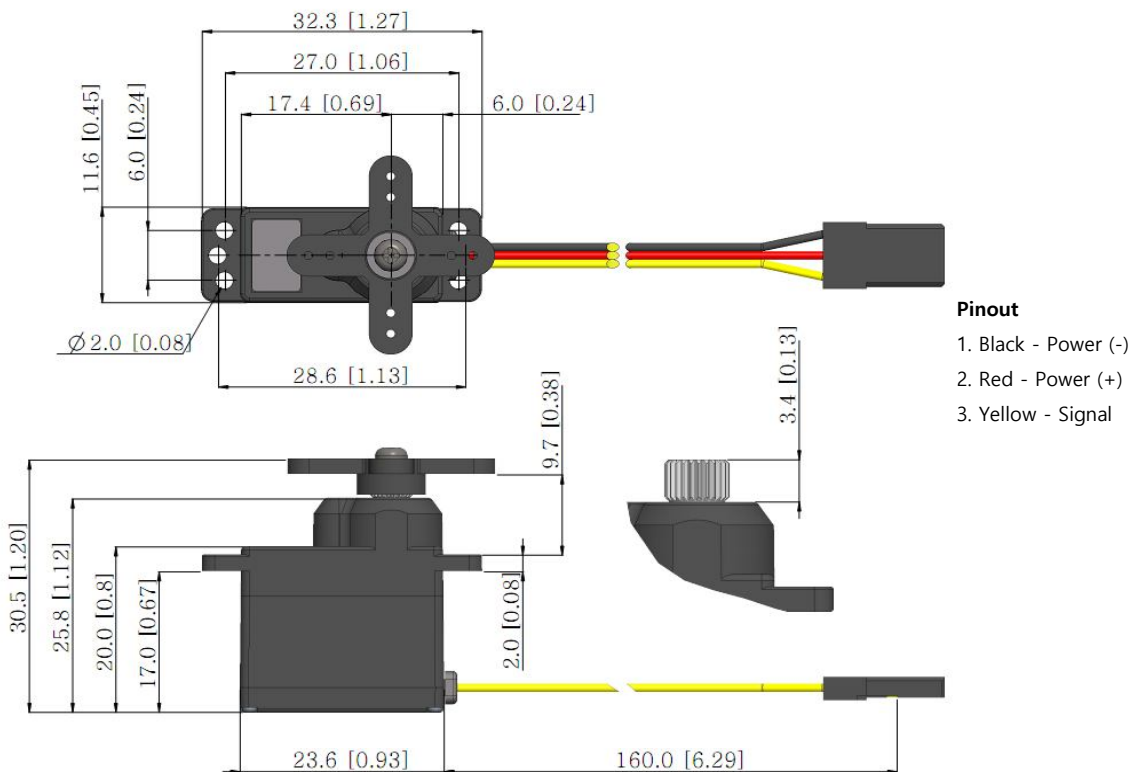


GENERAL SPECIFICATION OF MD65MG HIGH TORQUE DIGITAL FEATHER SERVO

UPDATE : Sep 20, 2018

OPERATING VOLTAGE RANGE	DC 4.5 V ~ 6.5V	
TEST VOLTAGE	At 4.8V	At 6.0V
OPERATING SPEED(No-load)	0.14sec/60° (428.6°/sec) (71.4RPM)	0.11sec/60° (545.5°/sec) (90.9RPM)
STALL TORQUE	1.8kg·cm (24.99oz.in)	2.2kg·cm (30.55oz.in)
IDLE CURRENT	8mA	8mA
RUNNING CURRENT(NO LOAD)	180mA	220mA
STALL CURRENT	960mA	1200mA
DEAD BAND WIDTH	1usec	1usec
CONTROL SYSTEM	Standard R/C Signal & Serial Command Control	
DIRECTION	Clock wise/Pulse Traveling 1500 to 2100us	
OPERATING TRAVEL	60°/ One side pulse traveling 600us, max ±165°(Programmable)	
POTENTIOMETER TYPE	Contactless	
MOTOR TYPE	Cored, Metal Brush	
AMPLIFIER TYPE	Digital 32Bits MCU	
BALL BEARING	MR85 x 1	
CASE MATERIAL	Engineering Plastic	
GEAR MATERIAL	1 Resin & 4 Metal Gears	
OPERATING TEMPERATURE RANGE	-20°C ~ +70°C (-4°F ~ +158°F)	
STORAGE TEMPERATURE RANGE	-30°C ~ +80°C (-31°F ~ +176°F)	
VIBRATIONS AT NO LOAD	MIL-STD-810G 514.6C-VII	
GEAR TRAIN BACKLASH	Max 0.5°	
WEIGHT	12g(0.42oz)	
CONNECTOR WIRE LENGTH	160mm(6.3in) /28AWG	
HORN GEAR SPLINE	25 Segment, Ø5.0	
OUTLINE DIMENSIONS	23.6 x 11.6 x 25.8mm(0.93 x 0.45 x 1.12in)	



UNIT : mm[Inch]