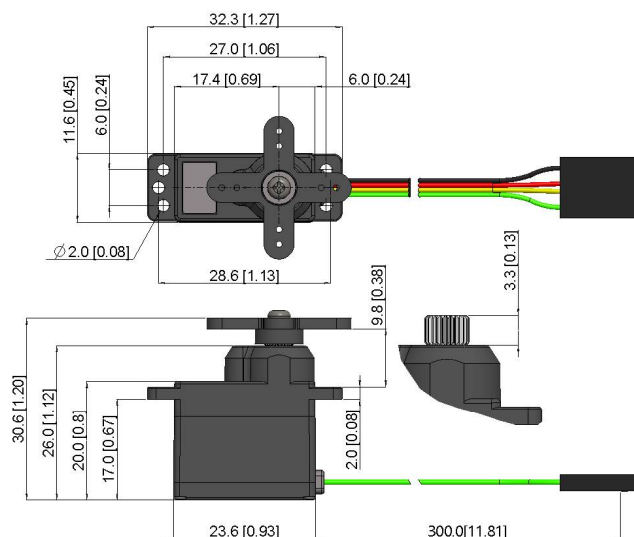


# GENERAL SPECIFICATION OF MD65MG-CAN



UPDATE : 2019-04-12

Control System	CAN BUS			
	Protocol (Mode)	Standard 2.0A	Extended 2.0B	UAVCAN
	Baud-Rate	10kbps ~ 1 Mbps		
	Sample-Point	50% or 87.5%		
	Available SERVO ID	0 ~ 254		
	Available Node ID	0 ~ 65535	0~2147483647	1~127
Input Signal Range	Input -12V~12V			
Position Sensor Type	Contactless encoder			
Operating Voltage Range	4.8 V ~ 6.0V			
Motor Type	Cored			
Controller(MCU)	32Bits			
Travel	Travel / Command	90° / 4096		
	Servo Mode	Left	Center	Right
	Pos Command	+84	+8192	+16300
	Pos ( Unit : ° )	-178	0	+178
	Turn Mode	Left	Power On	Right
	Pos Command	-16300	0	+16300
	Pos ( Unit : ° )	-358	0	+358
Turn Range	-32767 ~ +32767			
Voltage	At 4.8V	At 6.0V		
No Load Speed	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)		
Standing Current	30mA	30mA		
No Load Running Current	180mA	220mA		
Stall Current	960mA	1,200mA		
Dead Band	4Step	4Step		
Operating Temperature Range	-20°C ~ +60°C (-4°F ~ +140°F)			
Vibrations at No Load	MIL-STD-810G 514.6C-VII			
Storage Temperature Range	-30°C ~ +80°C (-31°F ~ +176°F)			
Connector Wire Length	300mm(11.81in)			
Outline Dimensions	23.6 x 11.4 x 25.8mm(0.93 x 0.45 x 1.12in)			
Weight	11.9g (0.42oz)			
Ball Bearing	Single Ball Bearing / MR85			
Case Material	Engineering Plastic			
Gear Material	1 Resin & 4 Metal Gears			
Gear Train Backlash	Max 0.5°			
Horn Gear Spline	M25T (25 Segment Ø5.0)			
Splined Horns	MS-X25			
Dust & Water Protect Class				



UNIT : mm(Inch)