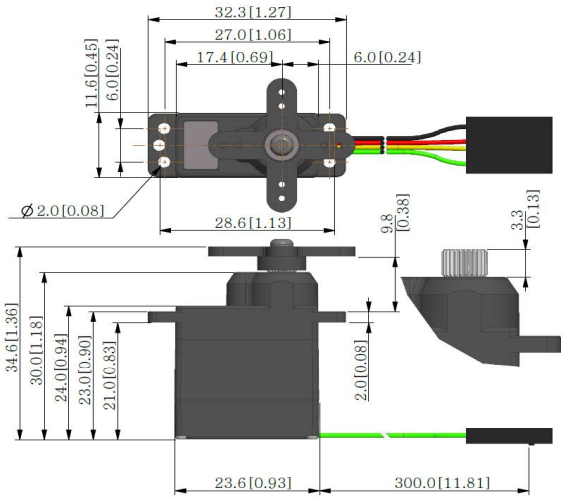
GENERAL SPECIFICATION OF MD70MH-CAN

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 encorder			
Operating Voltage Range	4.8 V ~ 7.4V			
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 6.0V**	**At 7.4V**
No Load Speed	-	0.15sec/60˚ (400˚/sec)(66.7RPM)	0.12sec/60˚ (500˚/sec)(83.3RPM)
Stall Torque	-	3.1kg•cm (43.28oz.in)	3.8kg•cm (53.06oz.in)
Standing Current	-	30mA	30mA
No Load Running Current	-	200mA	240mA
Stall Current	-	1,000mA	1,300mA
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 11.6 x 30.0mm (±0.2mm) (0.92 x 0.45 x 1.18 in)		
Weight	14.1g (0.49oz) (±10%)		
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)