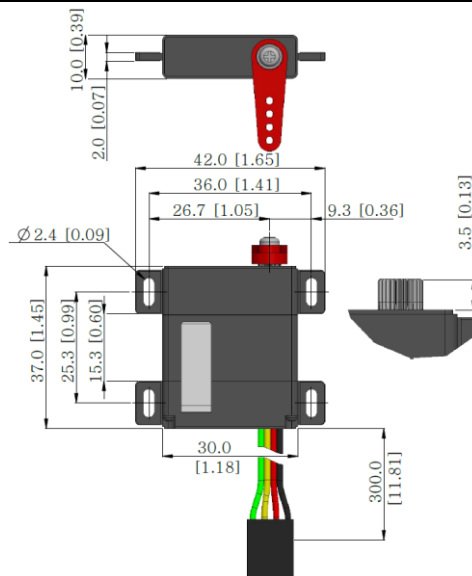


# GENERAL SPECIFICATION OF MD145SW-CAN

UPDATE : 2019-04-08

Control System	CAN BUS			
	Protocol (Mode)	Standard 2.0A	Extended 2.0B	UAVCAN
	Baud-Rate	10kbps ~ 1 Mbps (10, 20, 25, 40, 50, 80, 100, 125, 150, 200, 250, 400, 500, 750, 800, 1000)		
	Sample-Point	50% or 87.5%		
	Available SERVO ID	0 ~ 254		
	Available Node ID	0 ~ 65535	0~2147483647	1~127
Input Signal Range	-4 V to 16 V			
Position Sensor	Contactless Magnetic Encoder			
Operating Voltage Range	4.8 V ~ 7.4V			
Motor Type	Carbon Brush			
MCU	32Bits			
Travel	Travel / Command	90° / 4096		
	Servo Mode	Left	Center	Right
	Pos Command	91	8192	16300
	Pos ( Unit : ° )	2.00	180	358.18
	Turn Mode	Left	Power On	Right
	Pos Command	-16300	0	16300
	Pos ( Unit : ° )	-358.18	0	358.18
Turn Range	±32767			
Voltage	At 4.8V	At 6.0V	At 7.4V	
No Load Speed	0.21sec/60° (285 °/sec)(47RPM)	0.17sec/60° (352 °/sec)(59RPM)	0.14sec/60° (428 °/sec)(71RPM)	
Stall Torque	3.9kg·cm (54.45oz.in)	4.9kg·cm (68.42oz.in)	6.0kg·cm (83.78oz.in)	
Standing Current	30mA	30mA	30mA	
No Load Running Current	120mA	150mA	180mA	
Stall Current	1,600mA	2,000mA	2,500mA	
Operating Temperature Range	-20°C TO +60°C (-4°F TO +140°F)			
Vibrations at No Load	MIL-STD-810G 516.5			
Storage Temperature Range	-20°C TO +60°C (-4°F TO +140°F)			
Connector Wire Length	300mm(11.81in) /24AWG /Yellow : CAN Low, Green : CAN High			
Outline Dimensions	30.0 x 10.0 x 37.0mm(1.18 x 0.39 x 1.45 in)			
Weight	27.7g (0.977oz)			
Ball Bearing	Dual Ball Bearing / MR85			
Case Material	Engineering Plastic			
Gear Material	1 Metal + Plastic & 4 Metal Gears			
Gear Train Backlash	Max 0.5°			
Horn Gear Spline	25T (25 Segment Ø5.0)			



UNIT : mm(Inch)