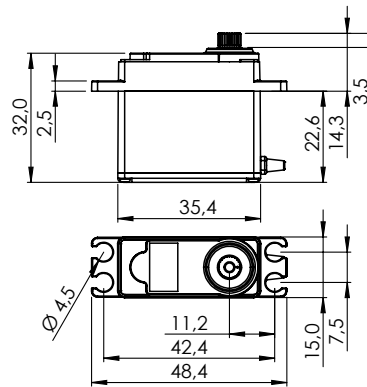


MD250MW-CAN/UAVCAN

#1-01666, #1-01572



General Specification		MD250MW-CAN/UAVCAN		
Control System	CAN BUS **			
	Protocol (Mode)	Standard 2.0A	Extended 2.0B	UAVCAN
	Baud-Rate	10kbps ~ 1Mbps		
	Sample-Point	50% or 87.5%		
	Available SERVO ID	1 ~ 254		1 ~ 127
	Available Node ID	1 ~ 2047	1 ~ 536870911	1 ~ 127
	Input Signal Range	0 ~ 5V		
Connector Type	Hitec 4P			
Position Sensor Type	Contactless Encoder			
Motor Type	DC Cored Carbon Brush			
Controller (MCU)	32 Bit			
Operating Voltage Range	4.8V ~ 6.0V			
Operating Voltage	At 4.8V		At 7.4V	
No Load Speed	354°/s (59RPM)		546°/s (91RPM)	
Stall Torque	4.9kgcm (48.05Ncm)		7.5kgcm (73.55Ncm)	
Idle Current	32mA		32mA	
No Load Running Current	110mA		190mA	
Stall Current	1,600mA		1,600mA	
Deadband Width	-			
Travel	Travel / Command	90° / 4096		
	Servo mode	Left	Center	Right
	Pos Command	+1366	+8192	+15018
	Pos [°]	-150	0	+150
	Turn Mode	Left	Power On	Right
	Pos Command	-16383	0	+16383
	Pos [°]	-359	0	+359
Turn Range	-32760 ~ +32760			
Operating Temperature Range	-20°C ~ +60°C (-4°F ~ +140°F)			
Storage Temperature Range	-20°C ~ +60°C (-4°F ~ +140°F)			
Vibrations at No Load	MIL-STD-810G 514.6C-VII			
Connector Wire Length	300mm			
Connector Wire Gauge	24AWG			
Connector Wire Strand Count	40EA			
Outline Dimensions	35.0 x 15.0 x 33.0mm			
Weight*	40.0g			
Ball Bearing	Dual Ball Bearing / MR106			
Case Material	Engineering Plastic			
Gear Material	1 Metal-Plastic & 4 Steel			
Gear Train Backlash	Max 0.5°			
Horn Gear Spline	H25T Ø6.0			
Accessories	Mounting Hardware, M-I25			
Dust & Water Protection class	IP4X			
Revision	Rev. 1.0 / 17.02.2022			
Changelog	-			

*of the servo only w/o horns and accessories