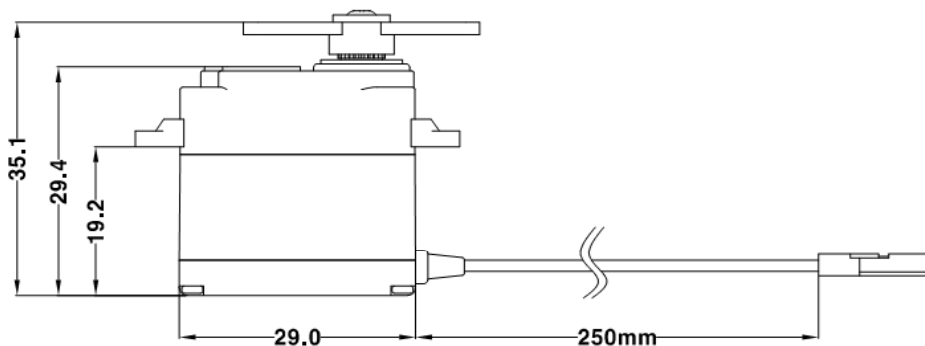
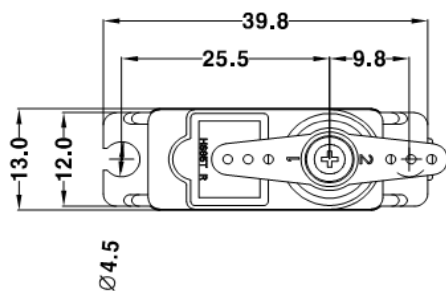


GENERAL SPECIFICATION OF MD85MG-CAN INTERFACE DIGITAL MICRO SERVO

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)	0.17sec/60° (348°/sec) (58RPM)		0.13sec/60° (456°/sec) (76RPM)
STALL TORQUE	3.6kg·cm (50.0oz.in)		4.3kg·cm (59.7oz.in)
IDLE CURRENT	8mA		8mA
RUNNING CURRENT(NO LOAD)	320mA		380mA
STALL CURRENT	1500mA		1800mA
CONTROL SYSTEM	CAN		
Protocol	Standard 2.0A	Extended 2.0B	UAVCAN
Available Node ID	1 ~ 65535	1~2147483647	1~127
Available SERVO ID	1 ~ 65535		
Baud-Rate	10kbps ~ 1 Mbps		
Sample-Point	50% or 87.5%		
Input Signal Range	-14 V to 14 V		
POTENTIOMETER TYPE	Contactless		
MOTOR TYPE	Cored, Carbon Brush		
AMPLIFIER TYPE	Digital 32Bits MCU		
BALL BEARING	MR106 x 1		
CASE MATERIAL	Engineering Plastic		
GEAR MATERIAL	5 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		
OPERATING TRAVEL	0° ~ 359°(Absolute Position Control)		
MULTI-TURN	±32,767 turn(with position control)		
GEAR TRAIN BACKLASH	Max 0.5°		
WEIGHT	25g(0.88oz)		
CONNECTOR WIRE LENGTH	250mm(9.84in) /28AWG		
HORN GEAR SPLINE	25 Segment, Ø6.0		
OUTLINE DIMENSIONS	29.0 x 13.0 x 30.0mm(1.14 x 0.51 x 1.18in)		



Pinout

1. Black - Power (-)
2. Red - Power (+)
3. Yellow - CAN(L)
4. Green - CNA(H)

UNIT : mm