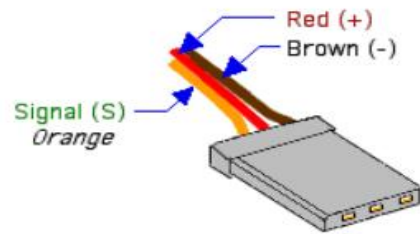
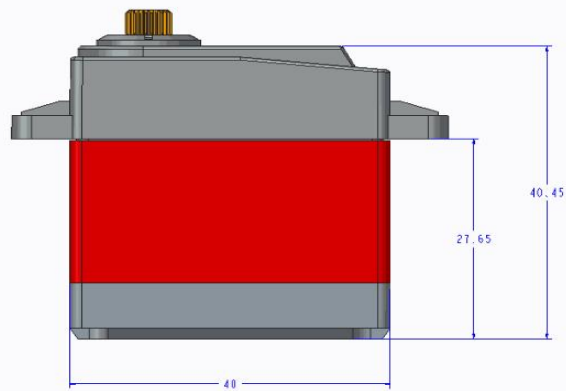
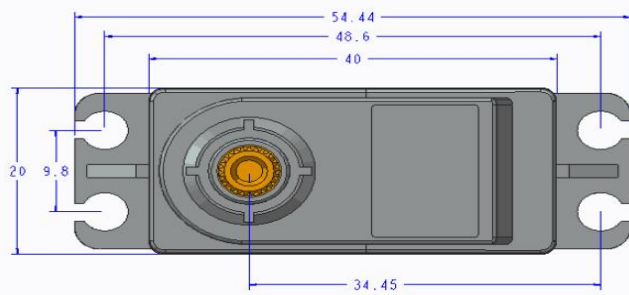


SHENZHEN SKY STAR TECHNOLOGY CO., LTD

Data Sheet of TD-8120MG Digital Servo Motor

Products Specification

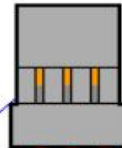
Products Name:TD-8120MG Digital servo		Products No.	
1.Apply Environmental Conditon			
No.	Item	Specifcation	
1.1	Storage Temperature Range	-30°C~80°C	
1.2	Operating Temperature Range	-25°C~70°C	
2. Standard Test Environment			
No.	Item	Specifcation	
2.1	Temperature Range	-25°C~70°C	
2.2	Humidity Range	65%±10%	
3. Mechanical Specification			
No.	Item	Specifcation	
3.1	Size	40.0*20.5*40.5mm	
3.2	Weight	60g±5%	
3.3	Gear type	5 Metal	
3.4	Limit angle	360°	
3.5	Bearing	2BB	
3.6	Horn gear spline	25T Diameter:6.0mm Height :4.0mm	
3.7	Horn type	Plastic, POM	
3.8	Case	Engineering plastics(PBT)+Aluminum alloy	
3.9	Connector wire	320mm±5mm	
3.10	Motor	Carbon brush motor	
3.11	Splash water resistance	yes	
4. Electrical Specification			
No.	Operation voltage	4.8V	8.4V
4.1	Idle current	mA	mA
4.2	No load speed	0.18sec/60°	0.14sec/60°
4.3	Runnig current	210mA	260mA
4.4	Peak stall torque	20.5kg.cm	22.8kg.cm
4.5	Stall current	2100mA±10%	2700mA±10%
4.6	Working voltage range	4.8-8.4V	
5. Control Specification			
No.	Item	Specifcation	
5.1	Command signal	Pulse width modification	
5.2	Amplifier type	Digital controller	
5.3	Pulse width range	500~2500usec	
5.4	Neutral position	1500usec	
5.5	Running degree	180°±3°(when 500~2500usec)	
5.6	Dead band width	3 usec	
5.7	Rotating direction	Counterclockwise (when 1000~2000usec)	
6. Drawings:		Wire And Plug:	



"F" Connector



"M" Connector



Lift tabs with knife edge to release wire pin

