

REV. 版本

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Specification Confirmation

CUSTOMER (客户): _____

MODEL NO. (型号): DS-R006

MODEL NAME. (名称): 60kg RS-485舵机

DS Confirmation

Prepared	Checked	Approval
覃远光	李裕昆	

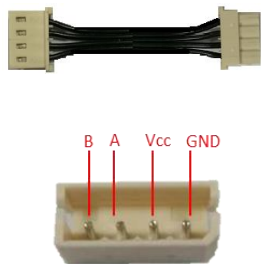
Custom Confirmation

Prepared	Checked	Approval

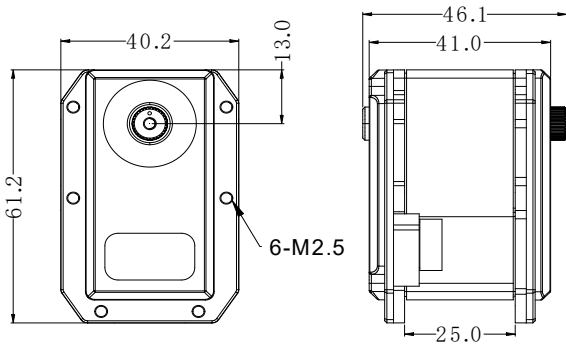
Revise record

REV.	Record detail	Date
00	初始发行	2020/10/8

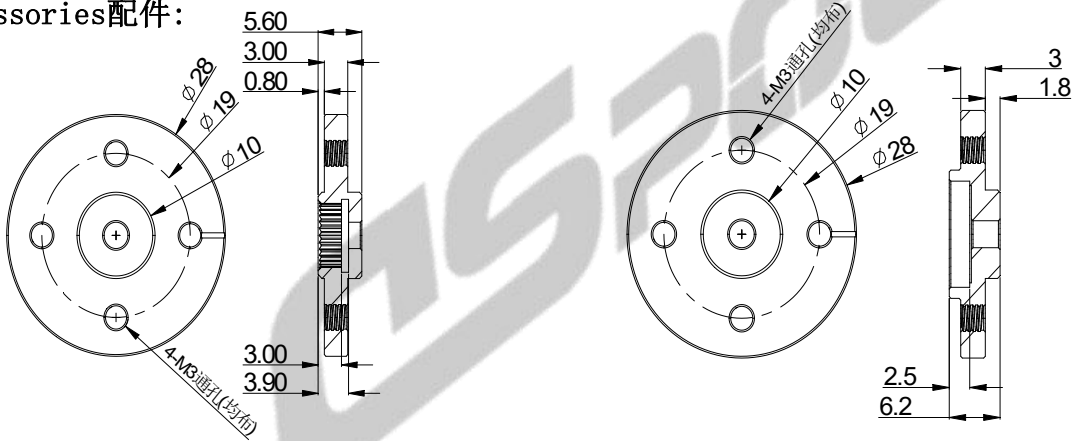
德晟模型科技有限公司

No	Item	Specification	Remarks			
1	Operating Voltage	10.0~14.8V				
2	Standby Current	≤12 mA at 12.0V (STD.)				
3	No Load Current*	≤850 mA at 12.0V (STD.)				
4	No Load Speed*	≤0.29 Sec./60° at 12.0V (STD.)				
5	Rated Torque	12kgf.cm at 12.0V (STD.)				
6	Rated Current	≤1.0A at 12.0V (STD.)				
7	Stall Current	≤5A at 12.0V (STD.)				
8	Stall Torque*	≥58 Kgf. cm at 12.0V (STD.)				
9	Rotating Direction*	CCW (96→4000)	俯视输出轴端方向			
10	Pulse Width Range	96~4000				
11	Neutral Position	2048				
12	Operating Travel Angle	310° ±10°	96~4000			
13	Mechanical Limit Angle	360°				
14	Angle deviation	≤ 2°				
15	L&R Angle deviation	≤ 9°				
16	Back Lash*	≤ 1°				
17	Dead Band Width	N/A				
18	Operating Temperature Range	-10°C~+50°C, ≤90%RH;				
19	Storage Temperature Range	-20°C~+60°C, ≤90%RH;				
20	Weight	162±2 g				
21	Case Material	Metal				
22	Gear Set Material	Metal				
23	Motor Type	Coreless Motor				
24	Angle Sensor	Type	Carbon Film Potentiometer			
		Angle	330°			
		Life	500,000Cycles Min			
25	Connector and Cable	Type	4Pin-2.54mm			
		Material	PVC			
		Length	250±5mm			
		Pin Assignment	1		Black	GND
			2		Black	Vcc
3	Black		A			
4	Black		B			
26	Horn Type	30T/∅ 7.96mm (CAN DO ODM)				
27	Rocker Arm Screw	-				
28	Communication Interface	UART(owned by our company)	Baud Rate 波特率:115200 bps			
29	Current Protection	Locked rotor protection for 3 seconds				
30	Clutch Protection	无				
31	Noise	≤50dBA (德晟测试架F3 AU3档)	空载测试,与噪音仪距离30cm,环境25dBA以下的最大噪音值			
32	Operating life time	持续运转测试寿命≥120h	额定负载下,以额定速度下顺/逆转动各100度			

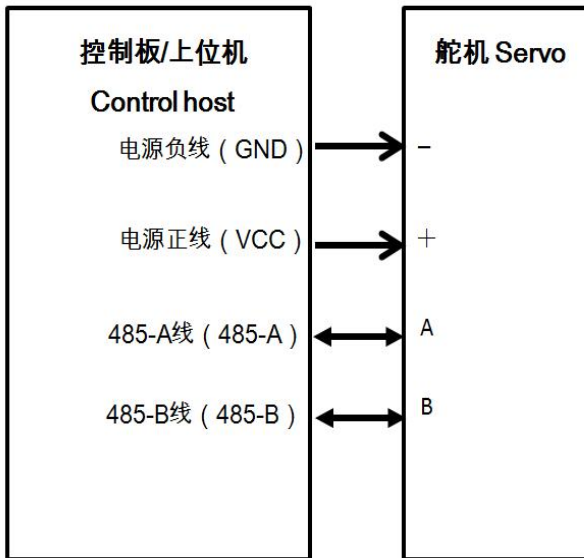
Outside Dimension: (Unit: mm)



Accessories 配件:



Electrical Schematic Diagram 电路简图:



串口信号参数 (UART signal parameter) :

波特率 (Baud rate) : 115200 (默认值)

数据位 (Data bit) : 8

停止位 (Stop bit) : 1

奇偶校验 (Parity) : 无 (None)

通信方式 (Communication) : 半双工 (Half duplex)

Remarks :

* Initial Performance Data By DS Servo Tester At $23 \pm 5^\circ\text{C}$.

* 起始性能数据是在 $23 \pm 5^\circ\text{C}$ 下通过德晟标准舵机测试架测试的数据。”

(Sample Plan 抽样计划:

Appearance 外观: MIL-STD-105E AQL II (MA=0.65/MI=1.0)

Dimension and Function 尺寸及功能: MIL-STD-105E AQL I (MA=0.65/MI=1.0)