

XXS GalvoMotor Specifications

XXS 马达规格参数

转动惯量 Rotor Inertia	0.018g·cm ² ,±10%
扭矩常数 Torque Constant	2.2N·mm/A
线圈电阻 Coil Resistance	2.7Ω,±10%
线圈电感 Coil Inductance	70μH,±10%
平均电流 RMS Current	2A at Tcase of 50°C,Max
峰值电流 Peak Current	8A,Max
重量 Weight(without cable)	19g
推荐孔径 Recommended aperture	3-7mm
最大扫描角度 Maximum scan angle ⁽¹⁾	± 20°
工作温度 Operating temperature(non-condensing)	25±15°C

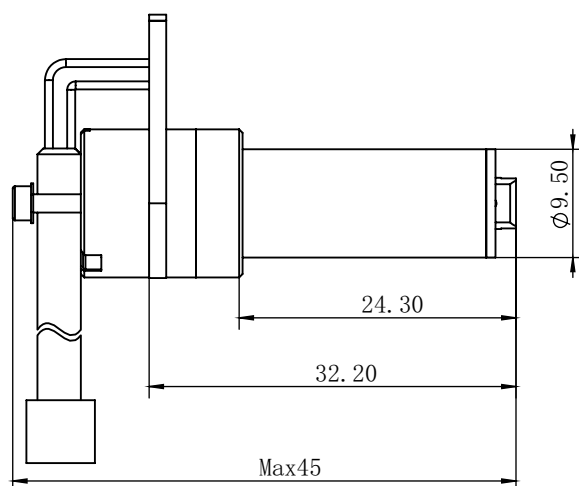
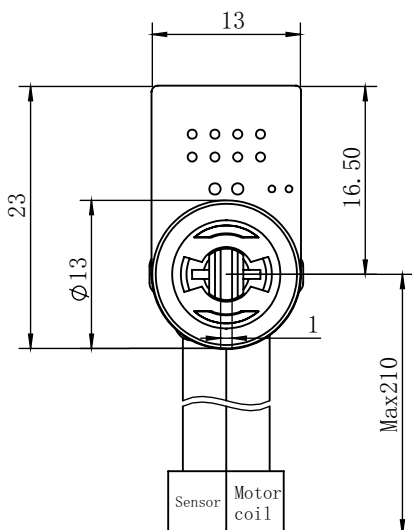
阶跃响应时间 Step response time	
1%全范围响应时间 1% of full scale ⁽²⁾	190us
线性度 Linearity ⁽³⁾	
99.5%,Minimum over 20 degrees	
零点漂移 Offset drift	15μrad/°C,Max
增益漂移 Gain drift	50PPM/°C,Max
可重复性 Repeatability(RMS)	5 microradians
传感器输出信号 Typital output signal	
-差模电流 Differential mode	9.6uA/°,at common mode current of 189uA,±20%
-共模电流 Common mode	189uA with an AGC current of 20.66mA,±20%
传感器供电电流 Supply current	
20-55mA	

(1) 所有角度均为光学角 All angles are in optical degrees.

(2) 稳定至满量程的1/100;阶跃响应时间取决于系统调节参数和镜片惯量。 Settling to 1/100 of full scale; step response time depends on the tuning and the inertia of the mirror.

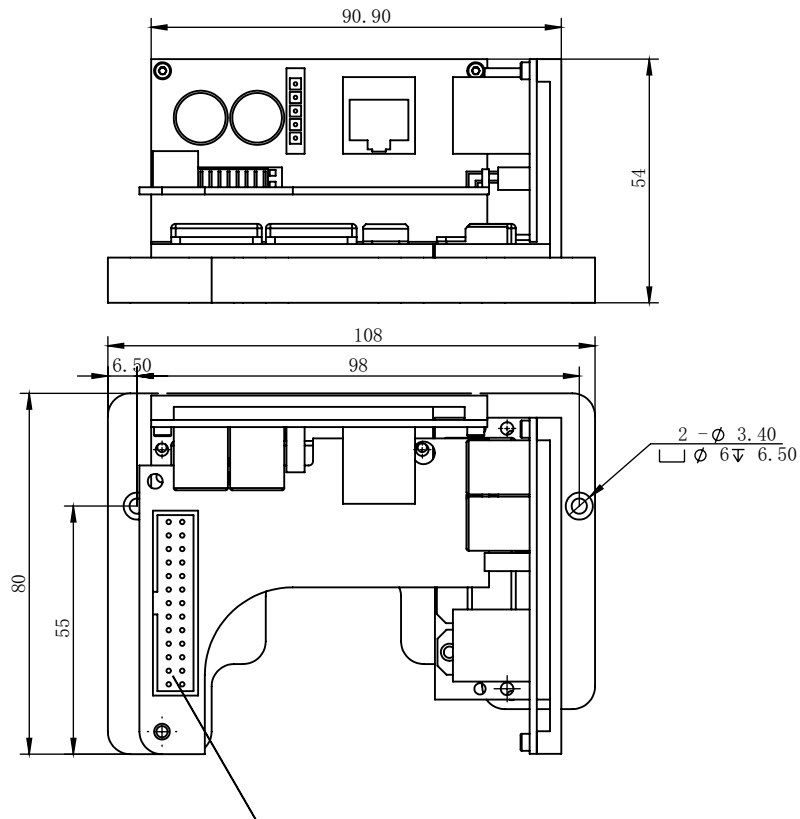
(3) 扫描角度为-20° 到+20° For scan angles from -20°to +20°.

上述资料如有更改, 将不作另行通知 The above information is subject to change without notice. 01/2023



XXS Driver Installation Diagram

XXS 驱动安装示意图



Driver power and signal connect port using an IDC ribbon cable assembly with a Db25 female, with a length of 120mm

