关节扭力传感器
## Joint Torque Sensor

WEILI

XJC-NJ10-A

特点/Feature

★ 整体涂胶密封保护
★ 经过高低温补偿，温度特性好
★ 采用电阻应变式原理，精度高
★ 外形尺寸小，内置0~5V放大器
★ 厚度薄，扭转刚度大，抗过载能力强
★ Overall glued sealing protection.
★ Good temperature characteristics with selfcompensated strain gauge.
★ High precision with the principle of resistance strain type.
★ Small size, built−in 0~5V amplifier.
★ Thin thickness, high torsional rigidity and strong overload protection capacity.

*外形和量程可根据客户的要求特殊定制
 Dimension and capacity can be customized by request.

技术参数/Technical specifications

| 量程（可选） Capacity (Optional)	20N.m,50N.m, 100N.m	材质 Material	不锈钢/Stainless steel
非线性 Nonlinearity	0.5% F.S.	通讯 Communication	RS485
使用电压力 Recommended excitation	5VDC	输出灵敏度 Rated output	1.0±0.1mV/V
防护等级 Protection class	IP64	温度补偿范围 Compensated temp range	−10 ~ 40°C
滞后 Hysteresis	0.5% F.S.	工作温度范围 Operating temp range	− 20 ~80 °C
重复性 Repeatability	0.5% F.S.	绝缘电阻 Insulation	≥5000MΩ/100V(DC)
输入阻抗 Input impedance	350±10Ω	输出阻抗 Output impedance	350±5Ω
蠕变（30分钟） Creep (30min)	0.5% F.S.	温度灵敏度漂移 Temp effect on output	0.2% F.S. /10° C
零点输出 Zero balance	±2% F.S.	零点温度漂移 Temp effect on zero	0.2% F.S. /10° C
安全超载 Safe load limit	200 % F.S.	极限超载 Ultimate load limit	300 % F.S.
电缆线尺寸 Cable size	Ø2 x1m	使用寿命 Life	满量程100万次以上 Full scale more than 1 million times
电缆线连接方式 Cable connection	Ex＋:红 Red；Ex－:黑 Black；Sig＋:绿 Green；Sig－:白 White		

受力方向/Load direction

M+

接线图/Wiring code

EXC+ Red （红）
SIG+ Green (绿)
Shiled 屏蔽线
SIG− White(白)
EXC− Black(黑)

平面图/Plan （单位:mm）

A−A

12.5
10
0.5
Ø16
Ø13
Ø53

Ø47
3×Ø3.01通 EQS
6×Ø5.7 深3.2 EQS
6×Ø3.2 通 EQS
9×Ø4.05 深2.5 EQS
9×M4 通 EQS
Ø24

A A
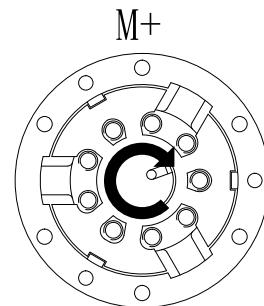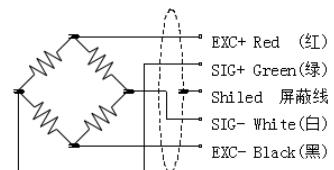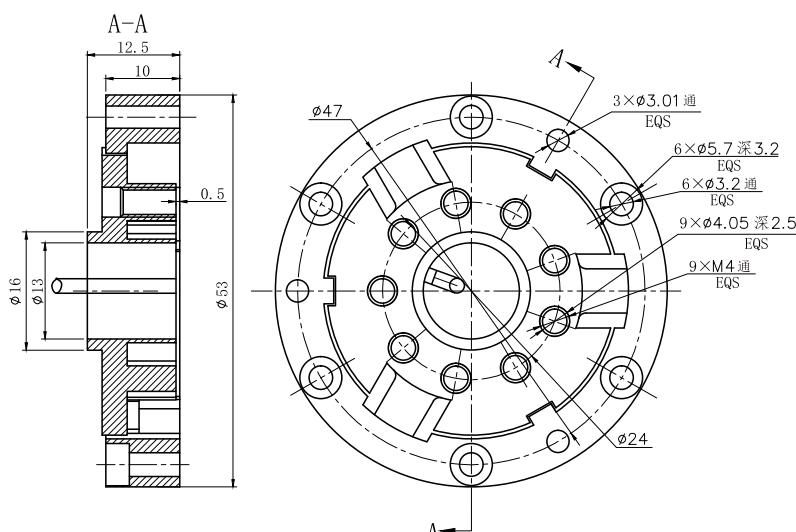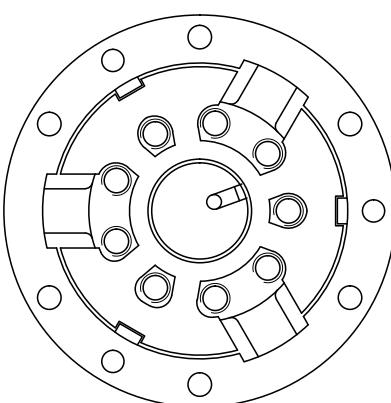
主要应用/Applications

主要应用：适用于工业自动化，汽车制造业，螺栓紧固技术，电动机，泵的力值检测
It is suitable for force value detection of industrial automation, motor industry, bolt tightening technology, electric motors, and pumps.