

# 关节扭力传感器

Joint Torque Sensor



## XJC-NJ75-A



## 特点/Feature

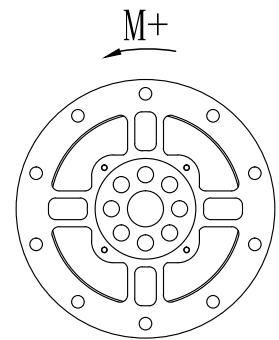
- ★ 通讯方式多样
- ★ 采样频率高，响应速度快
- ★ 采用电阻应变式原理，精度高
- ★ 经过高低温补偿，温度特性好
- ★ 外形尺寸小，厚度薄，扭转刚度大，抗过载能力强
- ★ Various communication methods are available.
- ★ High sampling frequency, quick response, strong antiinterference ability.
- ★ High precision with the principle of resistance strain type.
- ★ Good temperature characteristics with self-compensated strain gauge.
- ★ Small size, 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.

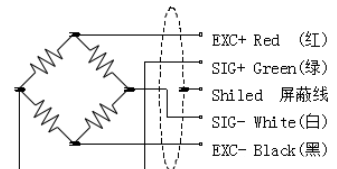
## 技术参数/Technical specifications

量程 (可选) Capacity (Optional)	20N.m, 50N.m, 100N.m	材质 Material	铝合金/Aluminum
非线性 Nonlinearity	0.2% F.S.	通讯 Communication	UART TTL 3.3v电平 232-TTL
使用电压力 Recommended excitation	12V-24VDC	输出灵敏度 Rated output	1.5 ± 10% mV/V
防护等级 Protection class	IP64	温度补偿范围 Compensated temp range	-10 ~ 40°C
滞后 Hysteresis	0.2% F.S.	工作温度范围 Operating temp range	-20 ~ 80°C
重复性 Repeatability	0.2% F.S.	绝缘电阻 Insulation	≥ 5000MΩ / 100V(DC)
输入阻抗 Input impedance	750 ± 50 Ω	输出阻抗 Output impedance	700 ± 5 Ω
蠕变 (30分钟) Creep (30min)	0.2% 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	± 0.05% 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	150 % F.S.	极限超载 Ultimate load limit	200 % F.S.
电缆线尺寸 Cable size	Ø2 x 1 m	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		

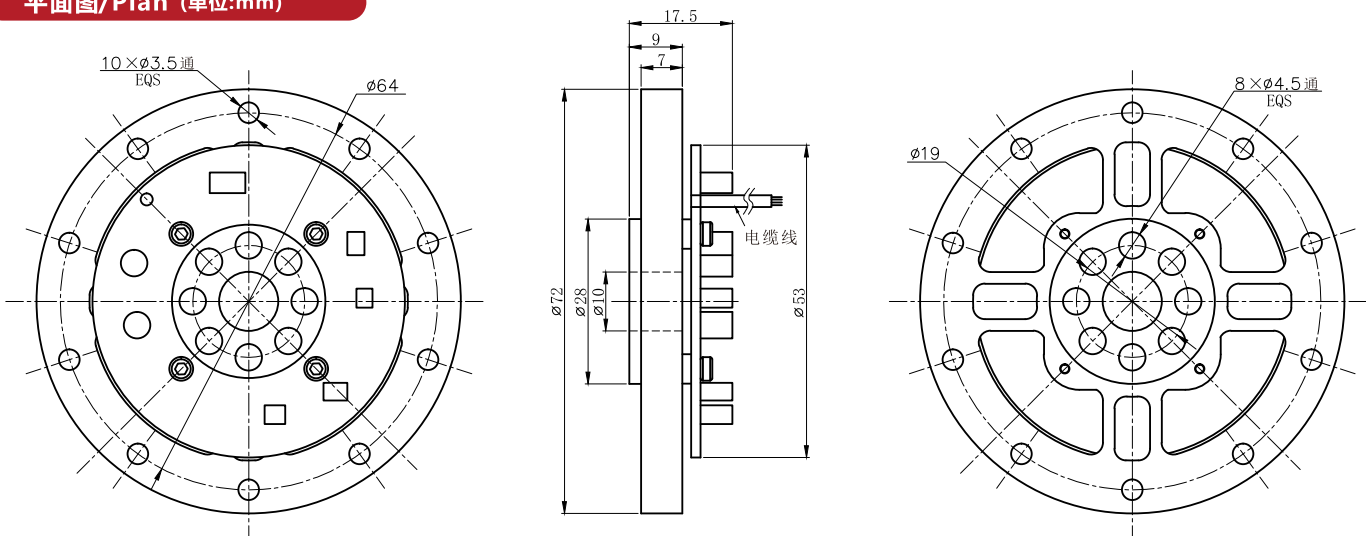
## 受力方向/Load direction



## 接线图/Wiring code



## 平面图/Plan (单位:mm)



## 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.