

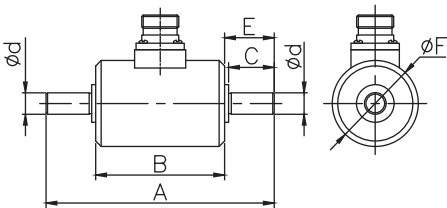
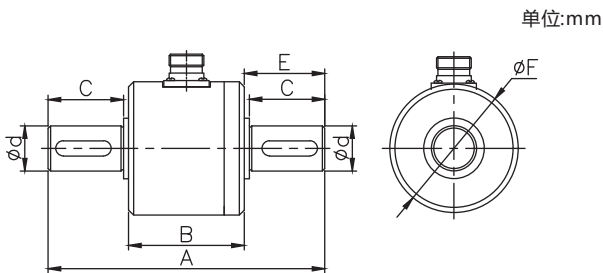
HSC2204 静态扭矩传感器 (HSC2204 Static Torque Sensor)

- 两端均为键连接，便于安装
- 电阻应变式原理，精度高，性能稳定可靠
- 用于正反扭矩值的测量
- 测量范围广，满足 20KNm 以下扭力值测量
- 铝合金/不锈钢材质，结构紧凑
- 适用于静态非连续旋转的扭矩值测量

型号	键槽	测量范围(Measurement range)
HSC2204	光轴,不带键槽	0~0.03,0.05,0.1,0.2,0.3,0.5,1,2,3,5,10Nm
HSC2204	带键槽	0~10,20,30,50,100,200,300,500Nm,1,2,3,5,10,20KNm

主要技术指标(Performance Specification)

- 输出灵敏度(Rated Output) : 0.5~1.5mV/V
- 零点输出(Zero Balance): $\leq \pm 0.02\text{mV/V}$
- 非线性(Nonlinearity) : 0.1%F.S.
- 滞后(Hysteresis) : 0.1%F.S./0.2%F.S.
- 重复性(Repeatability) : 0.05%F.S.
- 蠕变30分钟(Creep 30min) : 0.1%F.S.
- 工作温度(Operating Temperature) : -20~75°C
- 温度补偿范围(Compensated Temperature) : -10~60°C
- 零点温度影响(Temp Effect On Zero) : 0.03%F.S./10°C
- 输出温度影响(Temp Effect On Output) : 0.03%F.S./10°C
- 激励电压(Excitation) : 5-15VDC
- 绝缘电阻(Insulation Resistance) : $\geq 2000\text{M}\Omega/100\text{VDC}$
- 输入电阻(Input Resistance) : 350/700 $\pm$ 10 Ω
- 输出电阻(Output Resistance) : 350/700 $\pm$ 10 Ω
- 安全过载(Safe overload) : 150%F.S.
- 极限过载(Ultimate overload) : 200%F.S.
- 材质(Material) : 轴材料不锈钢、合金钢或铝合金，外壳为铝
- 电缆尺寸(Cable size) : $\Phi 5 \times 3\text{m}$
- 接线定义(Connection definition) : Exc+ :红red
Exc- :黑Black Sig+ :绿Green Sig- :白White



量程	d	A	B	C	E	F	键 b*h*l/n
0.03,0.05Nm	6	65	48	7	8.5	32	/
0.1,0.2,0.3,0.5,1,2,3,5Nm	8	85	48	17	18.5	32	/
10Nm	10	85	48	17	18.5	32	/
10,20,30,50,100Nm	18	110	46	30	32	51	6*6*22*1
200,300,500Nm	28	130	50	38	40	66	8*7*30*1
1KNm	50	210	66	68	72	97	16*10*53*1
2,3,5KNm	70	302	86	100	108	112	20*12*80*1
10,20KNm	110	400	100	140	150	173	32*18*110*2