

LCN-C05 Rotary Torque Sensor

Characteristics & Usage:

Resistance strain is an integrated product composed of sensitive elements and integrated circuits

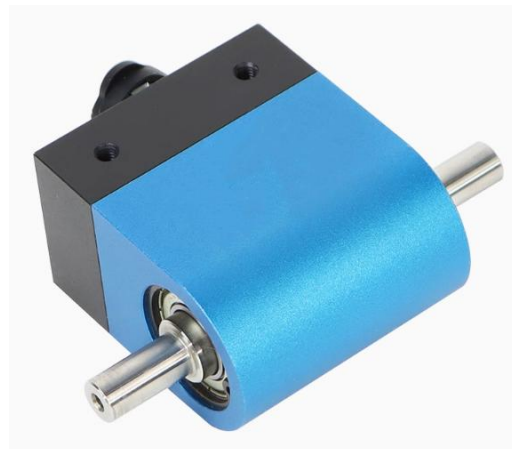
High precision, stable and reliable performance

High speed and long time operation

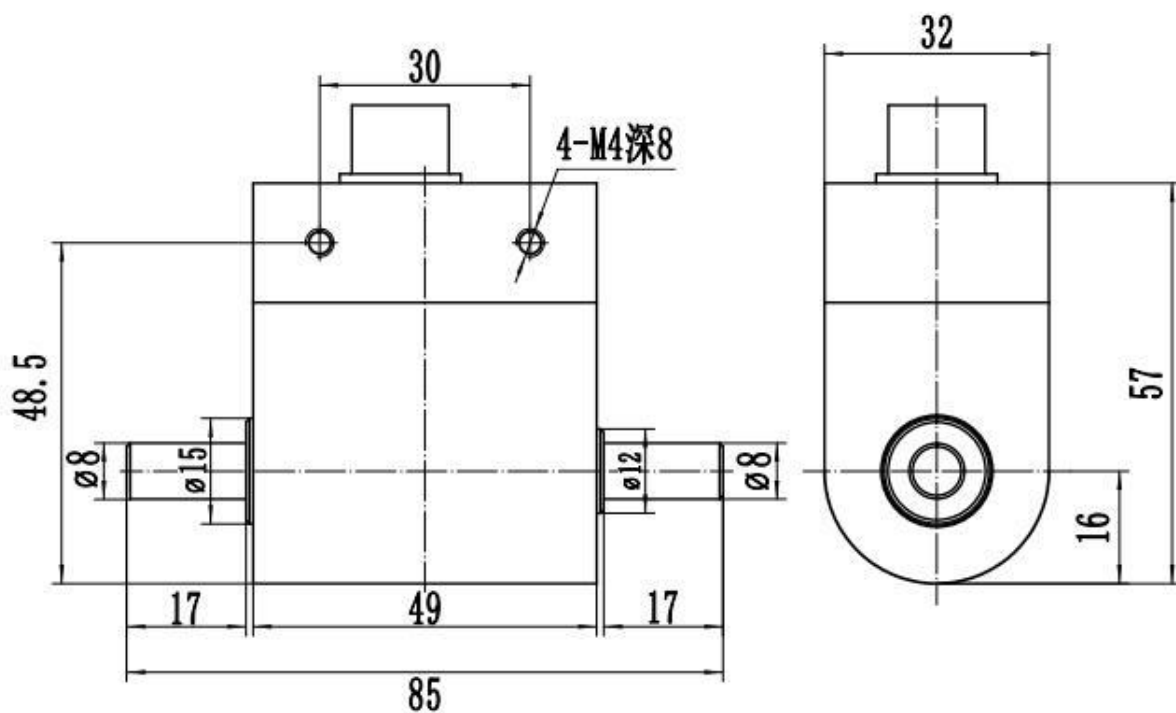
Output positive and reverse torque signal.

Both ends are key connected.

The maximum speed shall not exceed 4000rpm

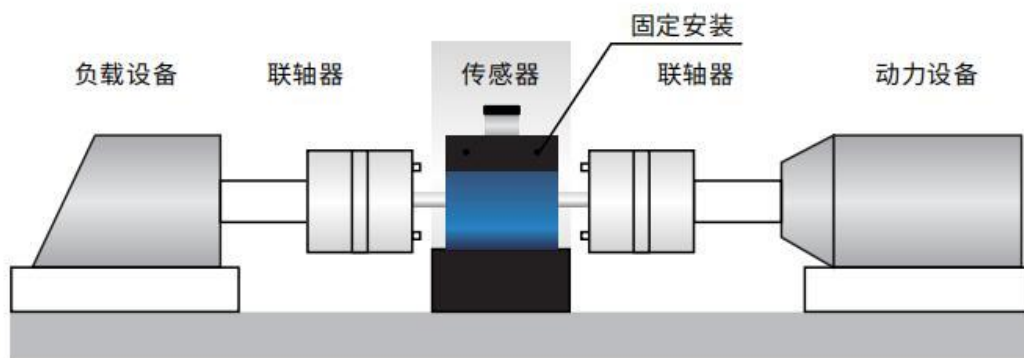


Dimensions (mm) :

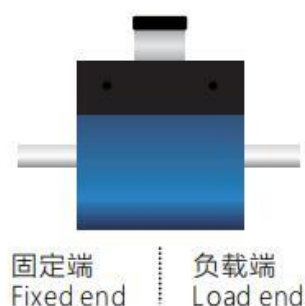


Capacity(N.m)	0.1	0.2	0.3	0.5	1	2	3	5
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Installation diagram:



Force diagram



Technical parameters

量程 Capacity	0-5N.m	材质 Material	不锈钢 Stainless Steel
转速量程 Speed Capacity	≤4000rpm	年稳定性 Stability per year	0.3%/year
转速信号 Speed Signal	1.0~2.0Mv/v	负载电阻 Load resistance	> 2k Ω
零点输出 Zero Balance	± 2% F.S.	使用电压 Working Voltage	DC24V 0.2A
非线性 Non-linearity	0.1%F.S.	消耗电流 Current Consumption	<150mA
滞后 Hysteresis	0.03% F.S.	工作环境 Work Environment	-10-50℃ 0-85%RH
重复性 Repeatability	0.03% F.S.	安全过载 Safe Overload	200%
蠕变 (30 分钟) Creep (30 Min)	0.03% F.S.	电缆线规格 Cable Specifications	Φ5*3m
温度灵敏度漂移 Temp Effect on output	0.03% F.S./10℃	线缆极限拉力 Cable ultimate pull	10kg
零点温度漂移 Temp Effect on Zero	0.1% F.S. /10℃	响应频率 Response frequency	1kHz
响应时间 Response Time	1.0ms(50%reaction)	惯性力矩 Moment of inertia	0.38kgcm
最大扭转角 Maximum torsion angle	2.60*10rad(0.149°)	扭力常数 Torsion constant	3.85*10Nm/rad
转子振动固有频率 Natural frequency of rotor vibration	19.4kHz		



Customize Your Own Sensor
