

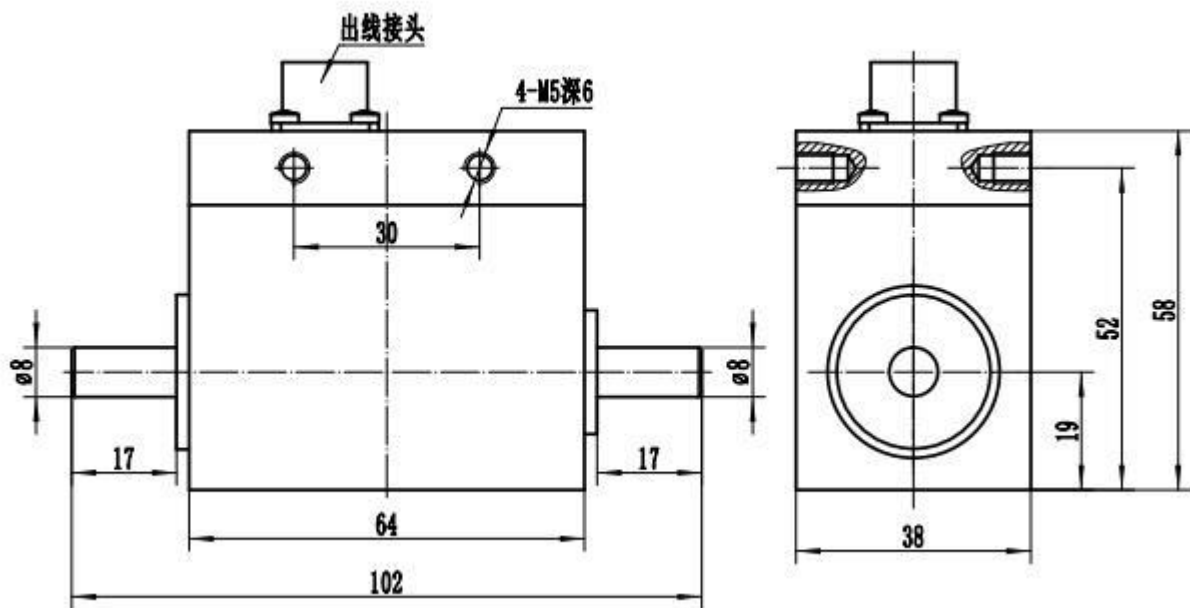
LCN-C07 Rotary Torque Sensor

Characteristics & Usage:

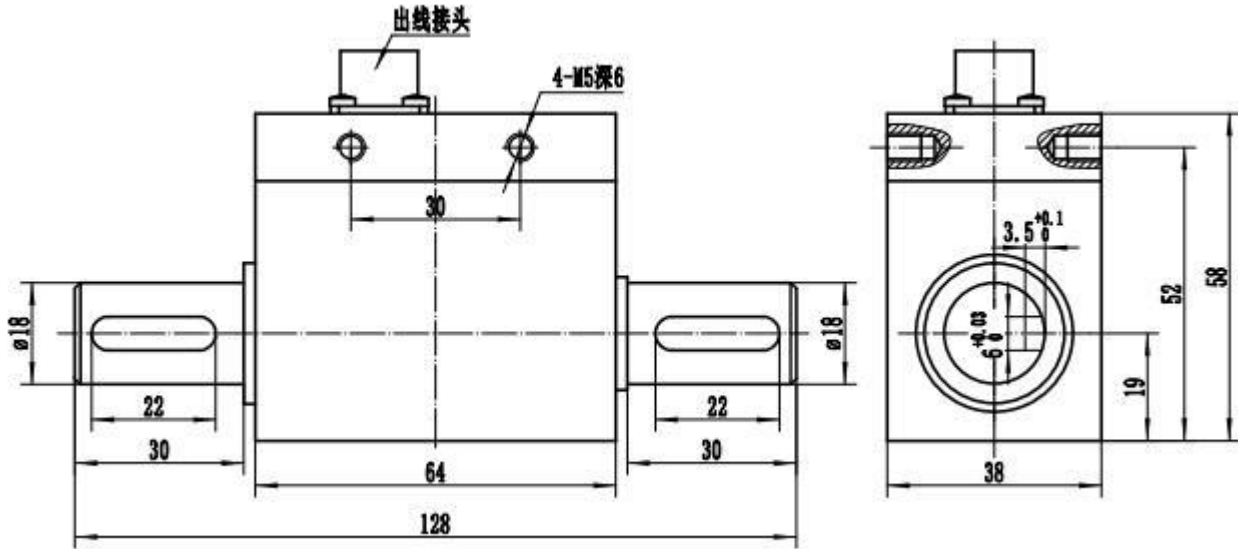
Strong anti-interference, high precision, good stability, small size, light weight, easy installation, non-contact transmission function of energy and signal, independent of rotation speed and steering when transmitting signal, can continuously transmit positive and negative torque signal without repeated zero adjustment, without wearing parts such as collector ring, and can run at high speed for a long time. It can be used for long-time high -speed operation and can transmit static/rotating/static/ dynamic torque signals.



Dimensions (mm) :

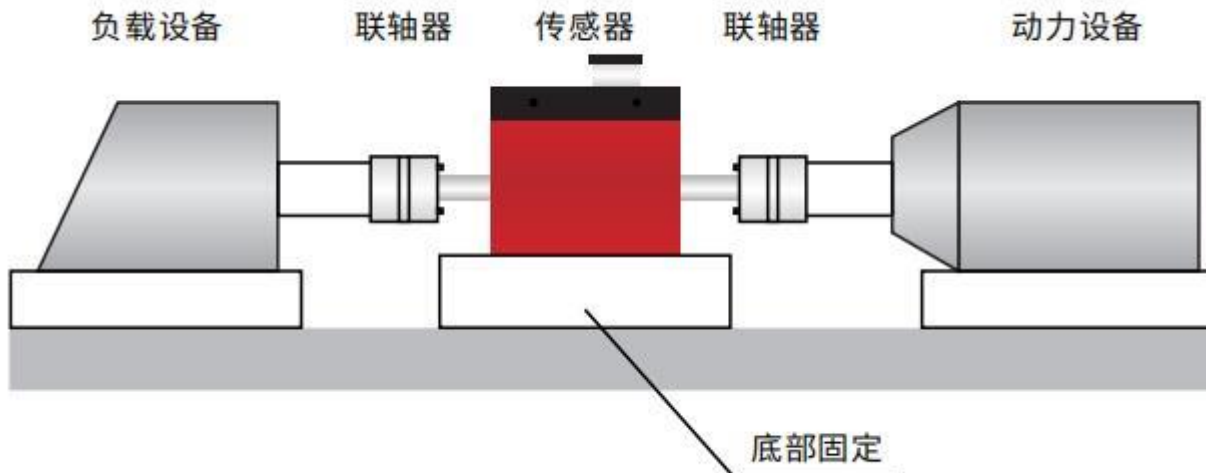


Capacity(N.m)	0.05	0.1	0.2	0.3	0.5	1	2	3	5
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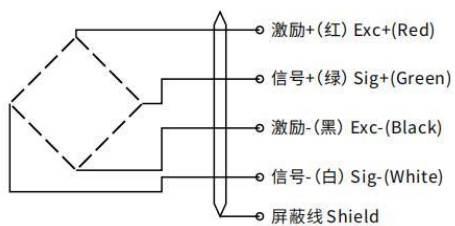


Capacity(N.m)	10	20	30	50	100	200
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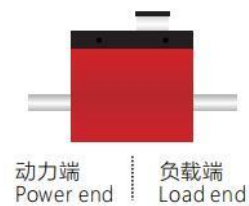
Installation diagram:



Sensor wiring diagram



Force diagram



Technical parameters

量程 Capacity	0-200N.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	1.0-1.5Mv/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	0.5%F.S.	消耗电流 Current Consumption	<150mA
滞后 Hysteresis	0.5% F.S.	工作环境 Work Environment	-10-50℃ 0-85%RH
重复性 Repeatability	0.2% 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℃		
响应时间 Response Time	1ms(50%reaction)		
响应频率 Response frequency	1kHz		
显示范围 Display Range	-99999-99999		
最大扭转角 Maximum torsion angle	2.60*10rad(0.149°)		
惯性力矩 Moment of inertia	0.38kgcm		
转子振动固有频率 Natural frequency of rotor vibration	19.4kHz		
扭力常数 Torsion constant	3.85*10Nm/rad		