

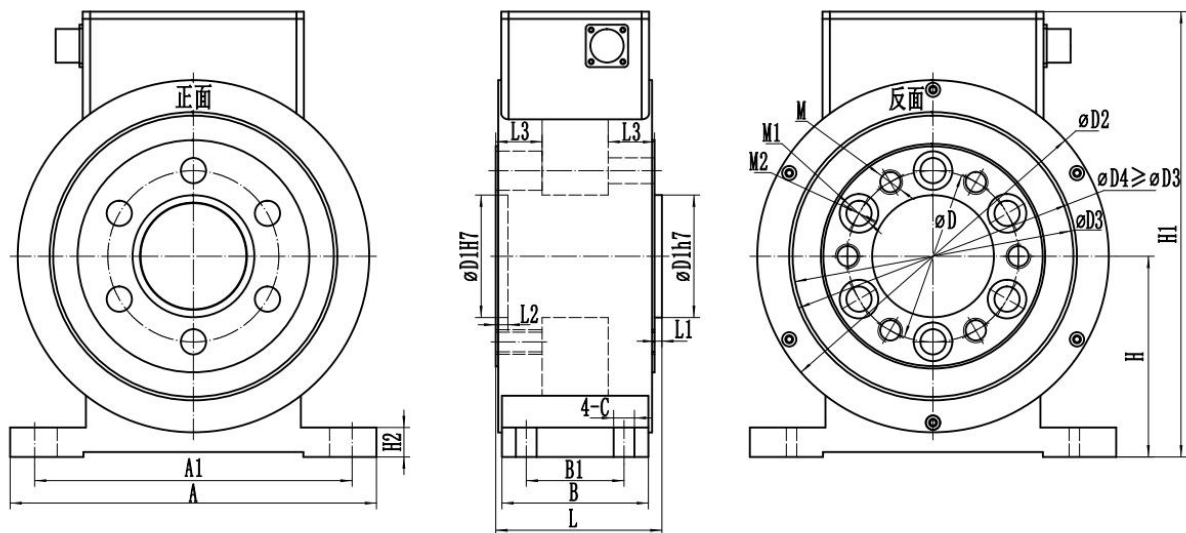
LCN-F02 Rotary Torque Sensor

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 transmit static/rotating/static/dynamic torque signal



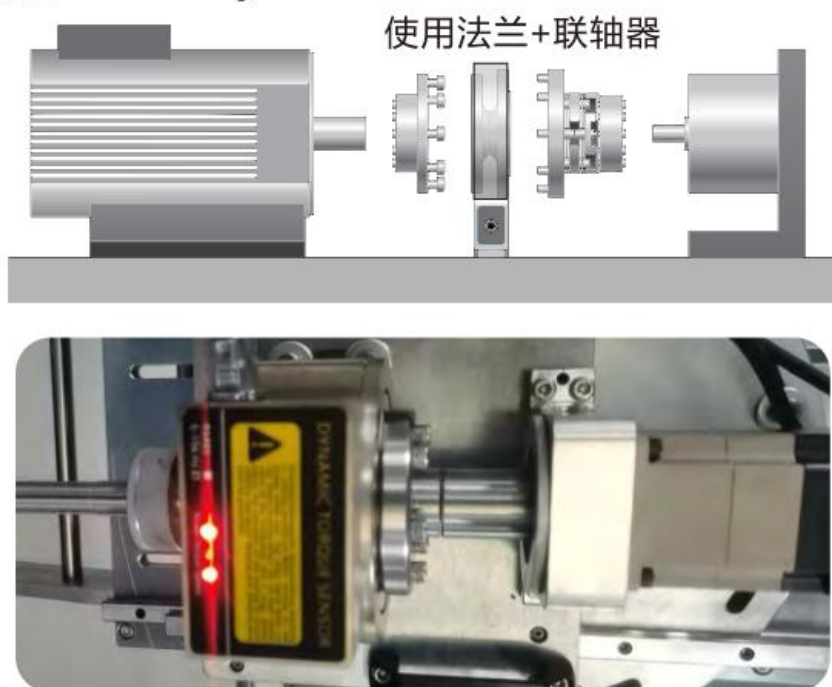
Dimensions (mm) :



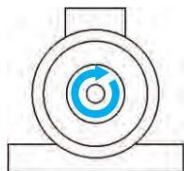
Capacity(N.M)	ϕD	$\phi D1$	$\phi D2$	L1	L2	$\phi D3$	A	A1	B	B1	4-C	L	H	H1	H2	M	M1	M2	L3
5-50	$\phi 60$	$\phi 50$	$\phi 124$	3	5	$\phi 95$	140	120	60	40	4-8.5	68	72	162	12	6-M6	6-M6	/	15
100-500	$\phi 70$	$\phi 50$	$\phi 144$	3	5	$\phi 115$	150	130	60	40	4-8.5	68	82	182	12	6-M10	6- $\phi 10.5$	6- $\phi 16$	19
800	$\phi 80$	$\phi 50$	$\phi 154$	3	5	$\phi 125$	150	130	60	40	4-8.5	68	96	201	12	6-M10	6- $\phi 10.5$	6- $\phi 16$	19
1000-2000	$\phi 105$	$\phi 75$	$\phi 189$	3	5	$\phi 153$	160	140	60	37.5	4-8.5	83	108	230.5	15	8-M12	8- $\phi 13$	8- $\phi 20$	25
4000-10000	$\phi 130$	$\phi 80$	$\phi 215$	5	6	$\phi 177$	220	190	90	60	4-11	115	130	265.5	15	10-M18	10-M18	/	30
3-4万	$\phi 200$	$\phi 150$	$\phi 292$	5	6	$\phi 250$	300	250	95	60	4-15	115	170	344	20	12-M24	12-M24	/	35
5-10万	$\phi 362$	$\phi 220$	$\phi 475$	5	5	$\phi 430$	280	226	125	100	4-13	138	365	630.5	25	16-M36	16-M36	/	45
11-25万	$\phi 570$	$\phi 500$	$\phi 740$	5	5	$\phi 640$	460	400	140	104	4-14	150	495	893	28	16-M36	16-M36	/	50

Installation diagram

安装示意图 installation diagram



Force diagram



Technical parameters

量程 Capacity	0-10000N.m	材质 Material	合金钢 Alloy Steel
转速量程 Speed Capacity	<15000 rpm	年稳定性 Stability per year	0.3%/year
转速信号 Speed Signal	5-15k Hz	阻抗 Impedance	350/700 ± 10 Ω
供电电源 Power Supply	DC 24V/±15V	绝缘电阻 Insulation	≥5000M Ω /100VDC
零点输出 Zero Balance	0.2% F.S.	工作温度范围 Operating Temp Range	-20-80℃
非线性 Non-linearity	0.2% F.S.	相对湿度 Relative Humidity	0-90%RH
滞后 Hysteresis	0.05% F.S.	安全过载 Safe Overload	120%
重复性 Repeatability	0.05% F.S.	极限过载 Maximum Overload	150%
蠕变 (30 分钟) Creep (30 Min)	0.05% F.S.	电 缆 线 规 格 Cable Specifications	Φ5*3m
温度灵敏度漂移 Temp Effect on output	0.05% F.S./10℃	线缆极限拉力 Cable ultimate pull	10kg
零点温度漂移 Temp Effect on Zero	0.05% F.S. /10℃	响应频率 Response frequency	1kHz