



MLC5101 Motor Shaft-Type Dynamic Torque Sensor

Model: MLC5101

Category: Torque Sensor

Range: 5,10,20,50,100,200,300,500,1000Nm

Material: Alloy Steel

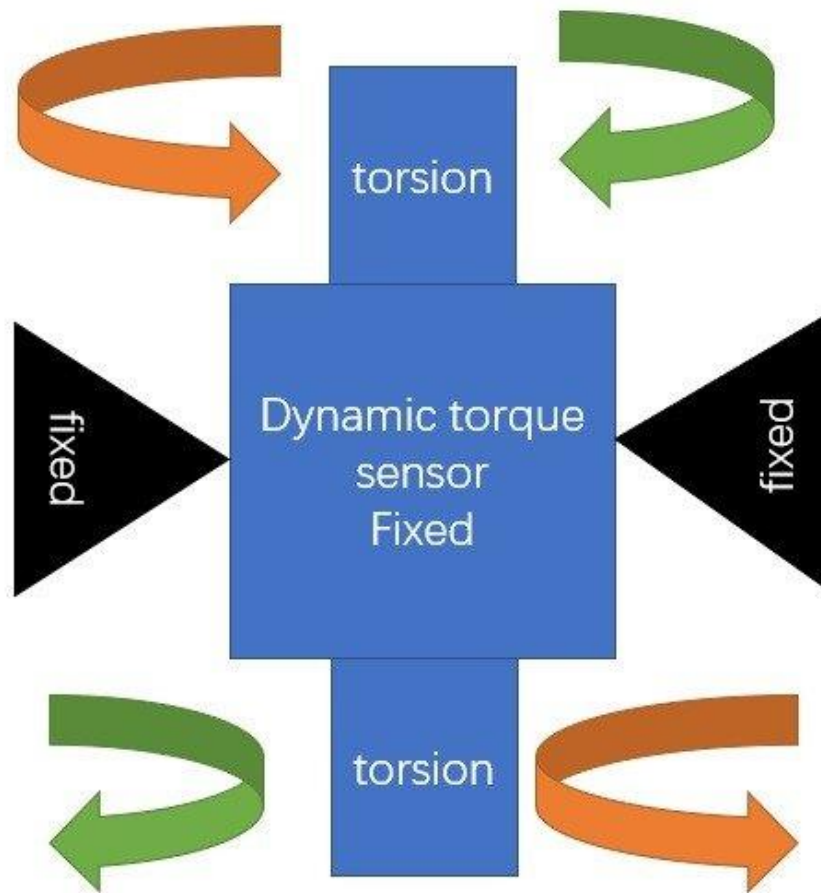
Application: Micro Dynamic Torque Measurement

Keywords: Motor Micro Shaft-Type Dynamic Torque Sensor

Product Image



Force Structure



Specifications

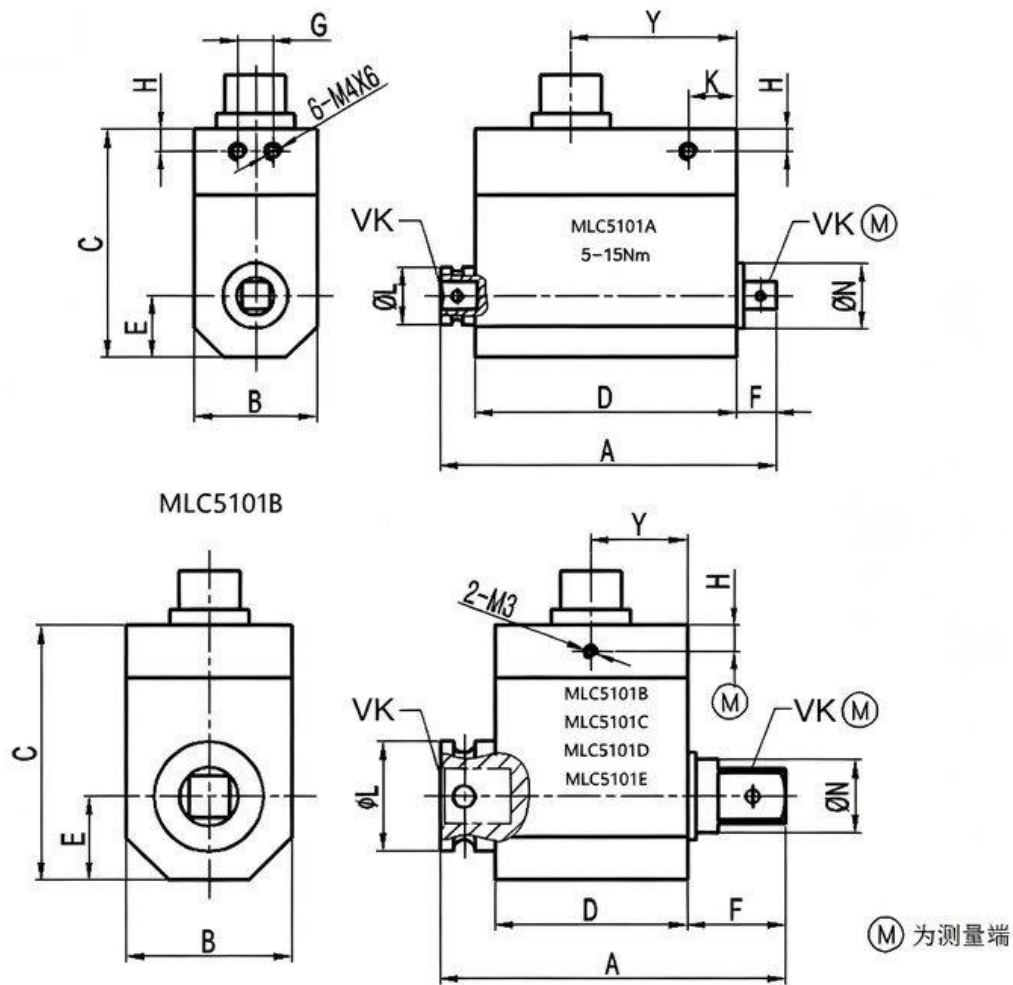
Range	5,10,20,50,100,200,300,500,1000Nm	Response Frequency	100 μ S
Sensitivity	1.5 $\pm$ 10% mV / V	Insulation Resistance	$\geq$ 5000M Ω / 100VDC
Zero Output	$\pm$ 1% F.S.	Excitation Voltage	10VDC(9-15VDC)
Nonlinearity	$\pm$ 0.1, 0.3% F.S.	Temp. Compensation Range	-10 ~ 60 $^{\circ}$ C
Hysteresis	$\leq$ $\pm$ 0.05% F.S.	Operating Temp. Range	-20 ~ 65 $^{\circ}$ C
Repeatability	$\leq$ $\pm$ 0.05% F.S	Safe Overload	150% F.S.
Creep	$\leq$ $\pm$ 0.03% F.S/30min	Ultimate Overload	200% F.S.
Temp. Sensitivity Drift	0.03% F.S. / 10 $^{\circ}$ C	Cable Size	$\varnothing$ 5.2 $\times$ 3m
Zero Temp. Drift	0.03% F.S. / 10 $^{\circ}$ C	Electrical Connection	Red/E+, Black/E-, Green/S+, White/S-
Input Resistance	350,750 $\pm$ 10 Ω	Material	Aluminum, Stainless Steel or Alloy Steel
Input Resistance	350,700 $\pm$ 5 Ω	Other Requirements	Customizable

Product Dimensions



MANYYEAR TECHNOLOGY

Torque Sensor - CATALOG



型号	量程Nm	VK	A	B	C	D	E	F	G	H	K	ØL	ØN	Y	轴径N	径向N
MLC5101A	5,10,15	1/4"	77	28	53	59	14	5.5	8	5	11	13	14.5	38	190	30
MLC5101B	20,30	3/8"	74.5	58	58	49	19	18	/	6	/	25	12.7	22	500	60
MLC5101C	100	1/2"	75	38	58	44	19	22.5	/	6	/	25	16.5	23	700	100
MLC5101D	200-500	3/4"	97	55	76	50	29	30	/	5	/	40	30	25	2000	150
MLC5101E	1000	1"	112	73	90	57	36.5	34.5	/	5	28.5	50	40	23.5	4000	250