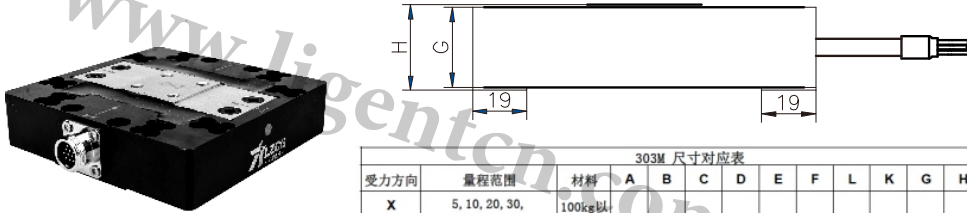


三轴力传感器 / 3-Axis Force Sensor

LF303M5

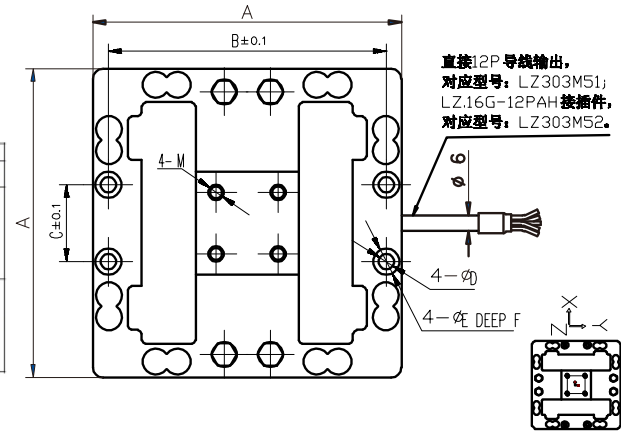


303M 尺寸对应表

受力方向	量程范围	材料	A	B	C	D	E	F	L	K	G	H	M
X	5, 10, 20, 30, 50, 100, 200, 300, 500kg	100kg以下铝合金, 其余合金钢	120	108	30	6.1	10.5	8	24	24	28	30	6
Y	10, 20, 30, 50, 100, 200, 500, 1000kg	合金钢或不锈钢	160	110	26	12.1	20	16	28	28	62	66	10
Z	300, 500, 1000, 2000, 2500kg	合金钢或不锈钢	160	110	26	12.1	20	16	28	28	62	66	10

LF303M三维方向力值耦合影响%

	X	Y	Z
X	-	±3	±5
Y	±3	-	±5
Z	±5	±5	-



TECHNICAL SPECIFICATION

输出灵敏度 Rated Output	1.0 ~ 1.5 mV/V	输出阻抗 Output Impedance	700(350)Ω
零点输出 Zero Balance	± 2 % F.S.	绝缘电阻 Insulation	≥ 5000MΩ/100VDC
非线性 Non-linearity	1.0 % F.S.	使用电压 Recommended Excitation	5~10V
滞后 Hysteresis	1.0 % F.S.	最大使用电压 Maximum Excitation	15V
重复性 Repeatability	0.5 % F.S.	温度补偿范围 Compensated Temp Range	- 10 ~ 60 °C
蠕变 (30分钟) Creep (30min)	0.5 % F.S.	工作温度范围 Operating Temp Range	- 20 ~ 80 °C
温度灵敏度漂移 Temp Effect on Output	0.05 % F.S. / 10°C	安全超载 Safe Load Limit	150%
零点温度漂移 Temp Effect on Zero	0.05 % F.S. / 10°C	极限超载 Ultimate Load Limit	200%
输入阻抗 Input Impedance	750(385) ± 5 Ω	电缆线尺寸 Cable Size	Ø 6 x 3m
电缆线连接方式 Wire Connection	按需订制 as request		
主要应用 Applications	铣床磨床加工过程中刀具三个方向受力分析检测, 机器人抛光三轴力的检测 Mainly used for force measurement analysis of tools from three dimensions during the process of milling or grinding machine, and the three-axis force measurement of robotic polishing		

*外形尺寸根据量程要求而不同 The dimension may be different based on the different capacity requirement.