

MLC5142F4 Cylindrical 4-axis Force Sensor $F_x F_y F_z M_z$

Model: MLC5142F4

Category: Multi-Axis Force Sensor

X-axis F_x : 5-5000N

X-axis F_x : 5-5000N

Z-axis F_z : 10-10000N

Z-axis M_z : 50-300N.m

Dimensions: $\varnothing 142 \times 130$ mm

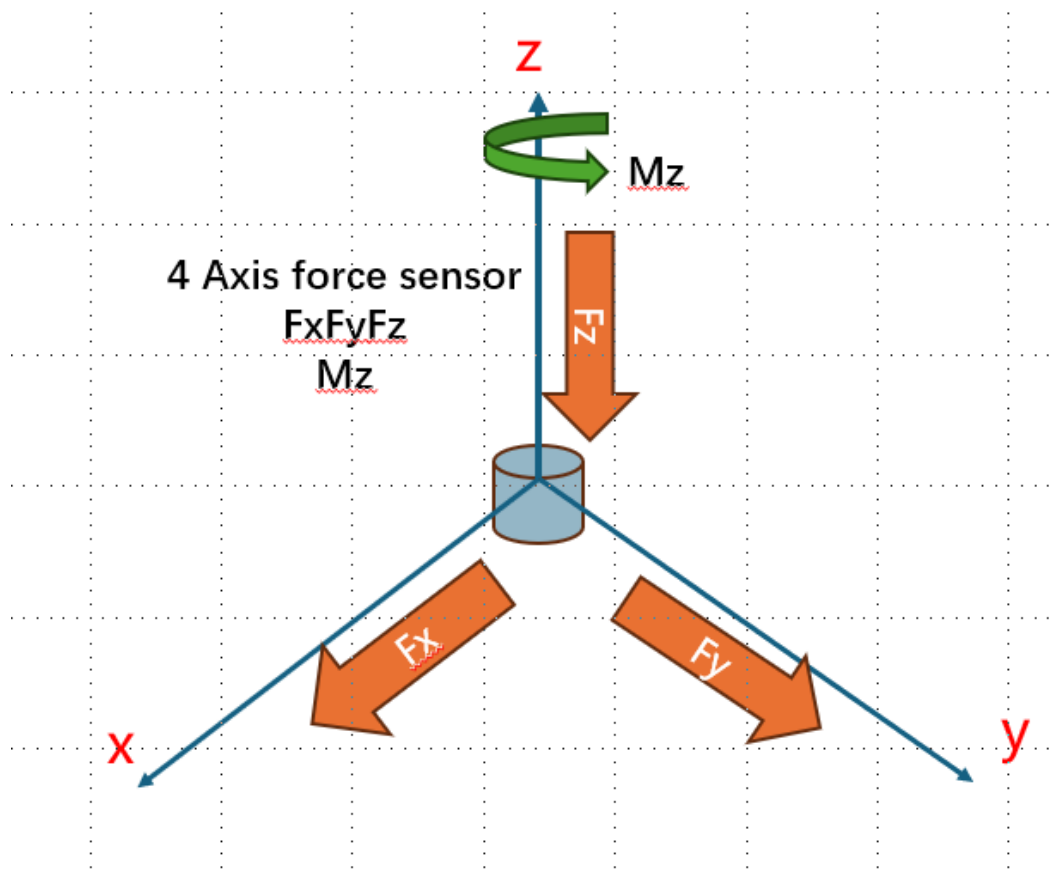
Material: Aluminum Alloy, Alloy Steel , Stainless Steel

Application:

Robot assembly, robotic arms, vehicle inspection lines, machine tool force measurement, auto parts welding



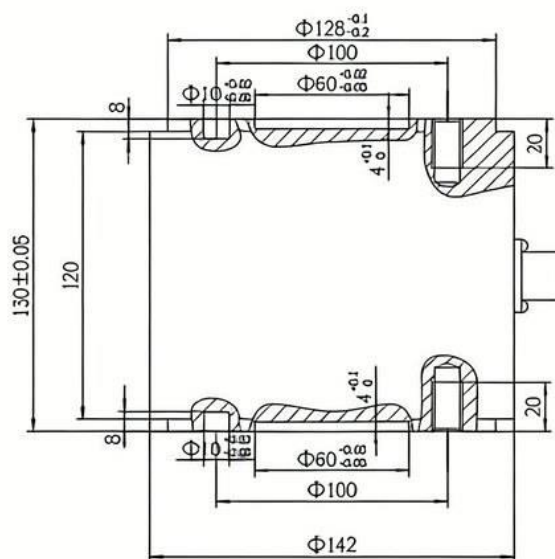
MLC5142F4



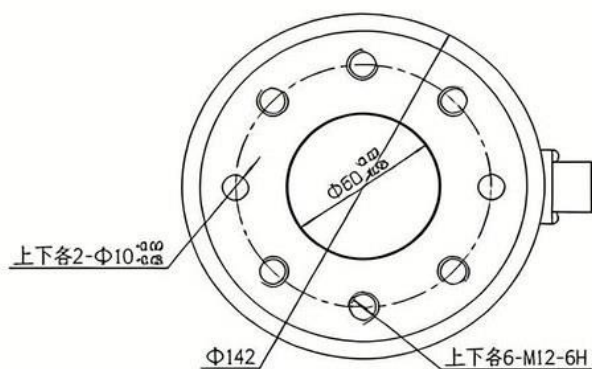
Force Structure

Technical Specifications

Combined Error	0.3%FS	Output Resistance	350±5Ω
Rated Output	1.0-2.0mv/v	Insulation Resistance	≥5000MΩ(100VDC)
Nonlinearity	0.3%FS	Operating Voltage	9~12VDC
Hysteresis	0.3%FS	Compensated Temperature	-10~+40°C
Repeatability	0.3%FS	Operating Temperature	-20~+55°C
Creep	0.3%FS/30MIN	Zero Temp Effect:	0.03%FS/10°C
Zero Output	±1%FS	Sensitivity Temp Effect	0.03%FS/10°C
Input Resistance	380±10Ω	Crosstalk	≤±2.5%F.S.



MLC5142F4-SIZE



Product Dimensions