



MLC5142F3 Cylindrical 3-axis Force Sensor FxFyFz

Model: MLC5142F3

Category: Multi-Axis Force Sensor

X-axis Fx: 5-20T

X-axis Fx: 5-20T

Z-axis Fz: 10-40T

Dimensions: Ø142*130mm

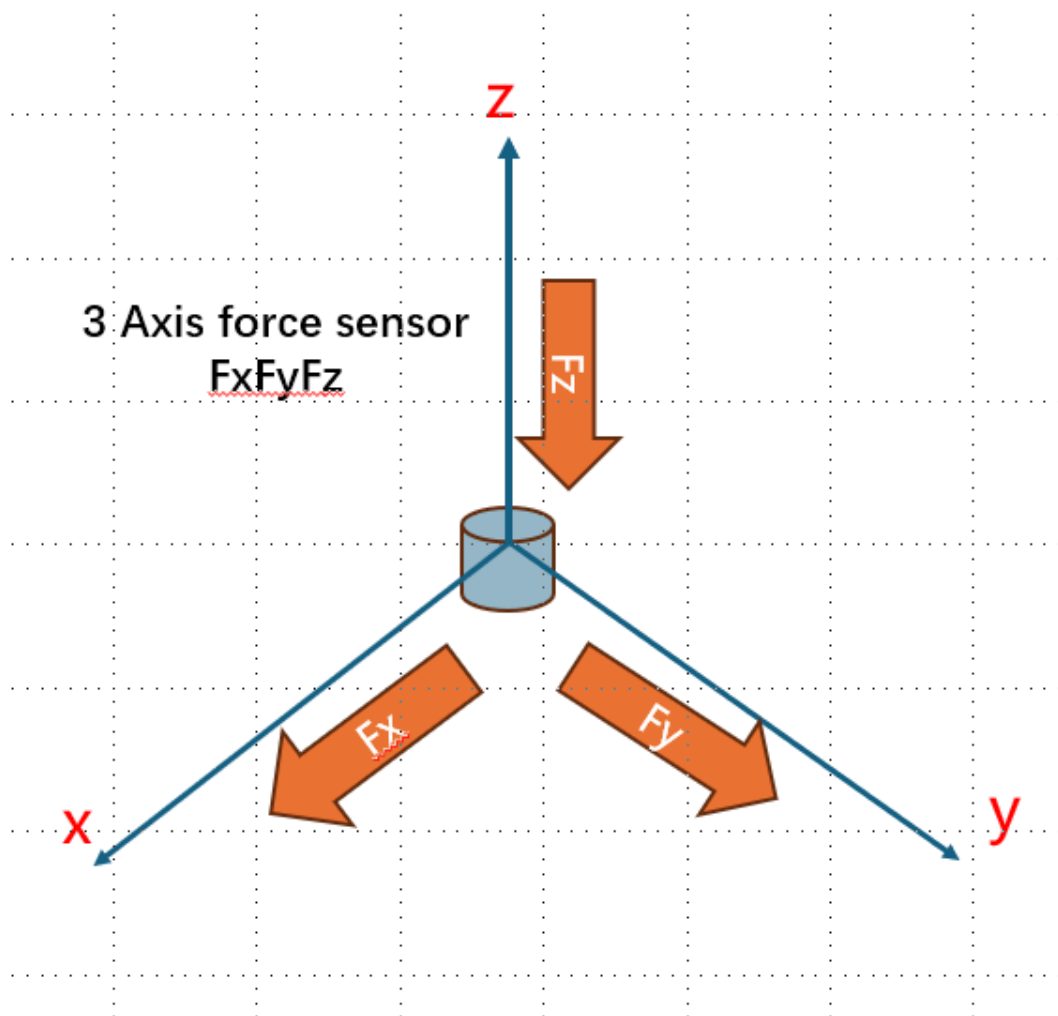
Material: Aluminum Alloy, Alloy Steel , Stainless Steel

Application:

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



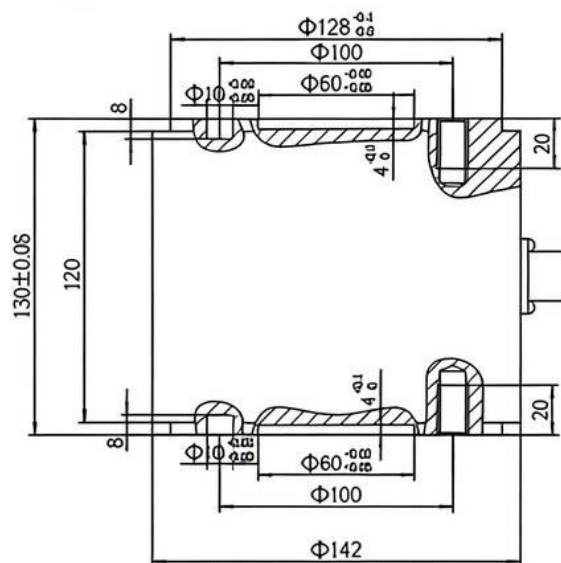
MLC5142F3



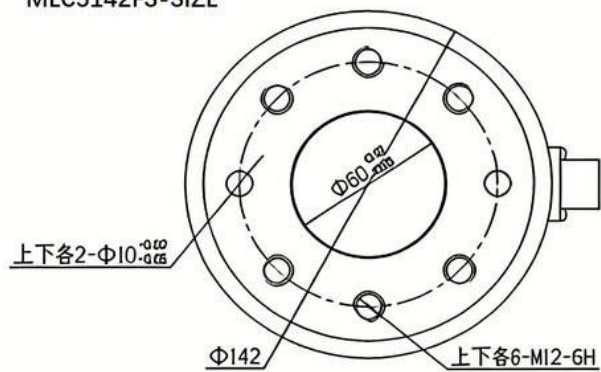
Force Structure

Technical Specifications

Combined Error	0.3%FS	Output Resistance	350±5Ω
Rated Output	1.0-1.5mv/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.



MLC5142F3-SIZE



Product Dimensions