

F 701 动态力传感器

产品规格书

F 701 Piezoelectric Dynamic Force Sensor

Product Specification

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产品简介

F 701 动态力传感器



F 701是压电式动态力传感器，环形通孔结构设计，它采用高稳定性石英晶体作为传感器敏感元件，外形尺寸小巧，可以应用于压缩和张紧力的测量。

F 701是电荷输出型传感器，搭配美格信A 821电荷前置放大器使用，指标优秀，适用于各种机械设备，机器人测力系统，螺栓动态受力等测量使用。

功能特点

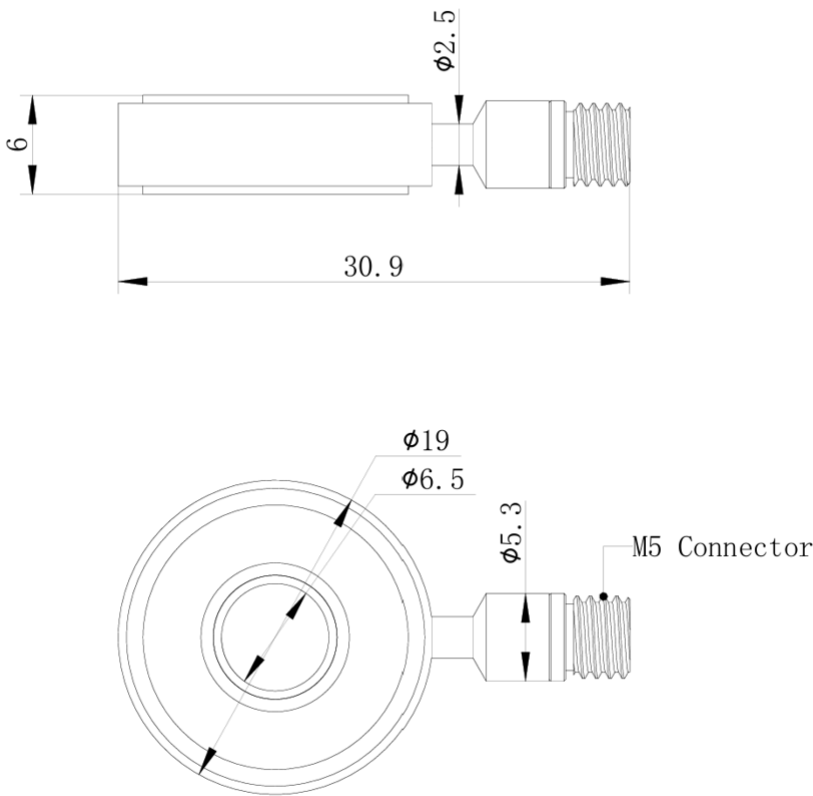
- 性能稳定，坚固耐用
- 通孔设计，易于安装

规格参数

整体参数	
量程	0 - 20kN
灵敏度（±15%）	4.3pC/N
测量频率上限	20000Hz
绝缘电阻	10GΩ
工作温度范围	-40°C - +120°C
非线性	± 1% FS
过载	25kN
防护等级	IP67
接口类型	Micordot (M5)
外壳材质	不锈钢
重量	<8.5g

外形尺寸

unit(mm)



订购信息

PN号	型号	说明
900016-02	F 701	动态力传感器
900010-21	A 821	电荷前置放大器

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Product introduction



F 701 Piezoelectric Dynamic Force Sensor

F 701 is a piezoelectric dynamic force sensor with a ring-shaped through-hole design. It employs a high-stability quartz crystal as the sensing element. With its compact dimensions, it is suitable for measuring both compression and tension forces.

F 701 is a charge-output type sensor. It is typically used with the MegaSig A 821 charge preamplifier, delivering excellent performance. It is ideal for various mechanical equipment, robotic force measurement systems, and dynamic bolt load monitoring applications.

Features

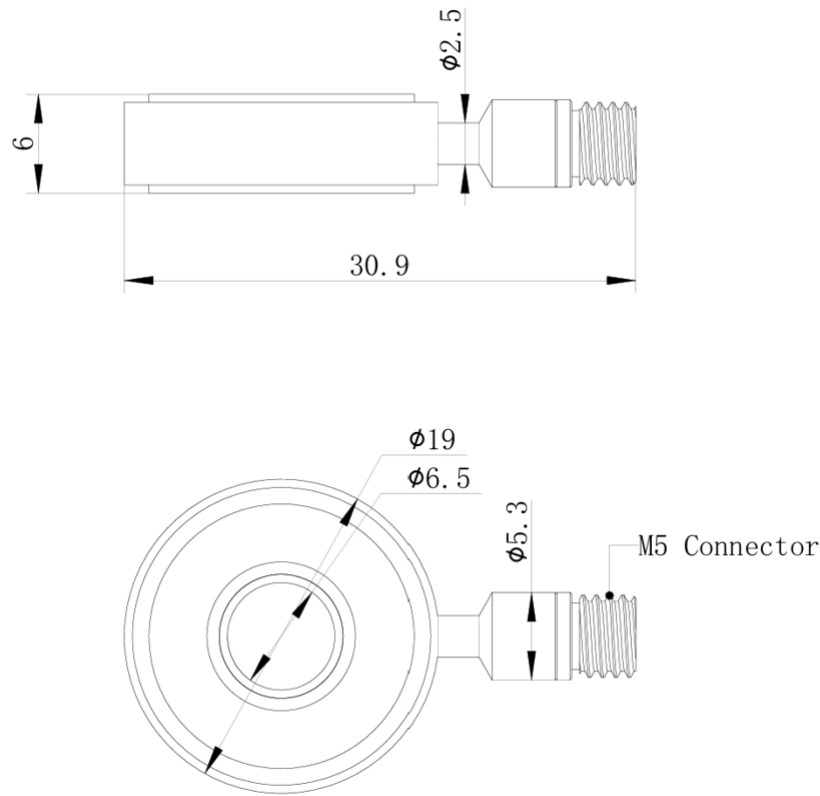
- Stable performance, rugged and durable
- Through-hole design for easy installation

Specification parameters

Parameters	
Measurement range	0 - 20kN
Sensitivity (± 15%)	4.3pC/N
Upper frequency limit	20000Hz
Insulation resistance	10GΩ
Operating temperature range	-40°C - +120°C
Nonlinearity	± 1% FS
Overload	25kN
IP rating	IP67
Connector type	Micordot (M5)
Housing material	Stainless steel
Weight	<8.5g

Dimensions

unit (mm)



Ordering Information

PN	Model	Description
900016-02	F 701	Piezoelectric dynamic force sensor
900010-21	A 821	Charge preamplifier

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