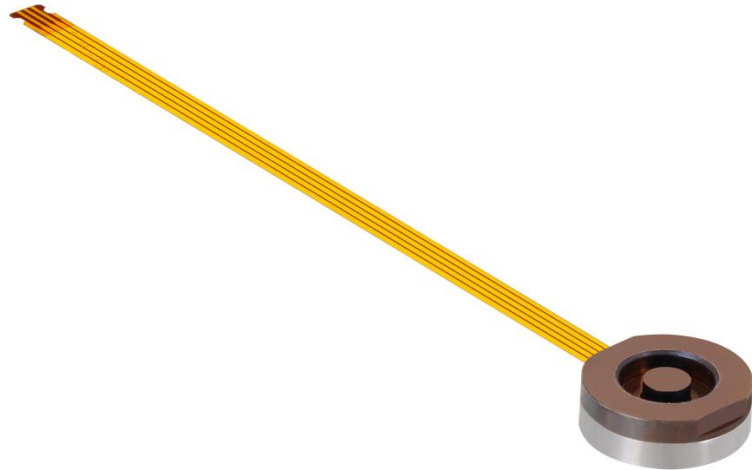


CS1901 force sensor

Features

- small volume
- Low noise
- High overload capacity
- High reliability
- Voltage output: 15mV/V rated
- Unlimited cycle life
- Responsive



Applications

- Assembly force
- Manual tool force measurement
- Vending system
- Home appliance imbalance monitoring
- Bridge
- Physical therapy equipment
- Fitness equipment
- Electrical load monitoring: washing machine, dryer
- Intelligent building
- Textile Machinery

Product description

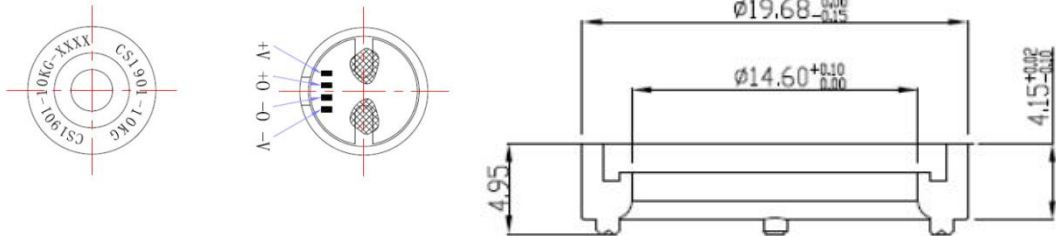
CS1901 is a force sensor designed for OEM customers with high performance and low cost. The range is 5, 10, 15, 25, 50, 100kg with an accuracy of 1%. Originating from the special requirements of the aerospace industry, special processes are used to combine pressure chips with high performance stainless steel sheets. It completely eliminates the organic epoxy resin used by traditional load cells to limit the life of the product, thus providing excellent zero point and long-term stability. It has high output and resolution even in the case of very small deformation, and has high overvoltage capability and long service life. Widely used in assembly, physical therapy, patient weight, sports equipment, vending machines, imbalance monitoring and other fields. It is a platformized product with a range from 300g to 600 tons.

Product electrical specifications

parameter	MIN	TYP	MAX	Units	Notes
powered by		5		V	dynamic
Sensitivity	16	20	24	mV/v	
Zero offset	-15		15	Mv	
Nonlinear	-1	0.5	1	%FS0	
Hysteresis	-0.08		0.8	%Span	
Thermal zero drift	-0.05		0.05	%FS0/°C	
Thermal sensitivity drift	-0.05		0.05	%FS0/°C	
Insulation resistance	50M			MΩ	250Vdc
Maximum overload		2		Times	
Compensation temperature	0		50	°C	
storage temperature	-40		125	°C	
temperature	0		95	%R.H	
Input resistance	2.4	3	3.6	KΩ	
Output resistance	3.5	4.5	7	KΩ	

Note: Power supply voltage: 5.0V, ambient temperature: 25°C

Physical dimension



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