

DCL 669

TENSION COMPRESSION FORCE SENSOR

Product Advantages

Tension and Compression Force Sensors are compact and symmetrical load cell designed for high-precision measurement of both tensile and compressive forces. Utilizing strain gauge technology, this sensor offers high strength, low deformation, and long-term performance thanks to its stainless steel construction. With a wide range of capacity options and standard mounting holes, it integrates easily into test systems, automation lines, and force-feedback control applications. Suitable for both static and dynamic force measurements ideal solution for reliable data acquisition.



Design Characteristics

- Extremely rigid, so that high natural frequencies can be attained
- High loading capacity
- Durable
- Compact design
- Broad measuring range
- Direct measurements in the force flux
- Extensive range.

Areas of application

- Mechanical Engineering
- Material Testing
- Production Processes.

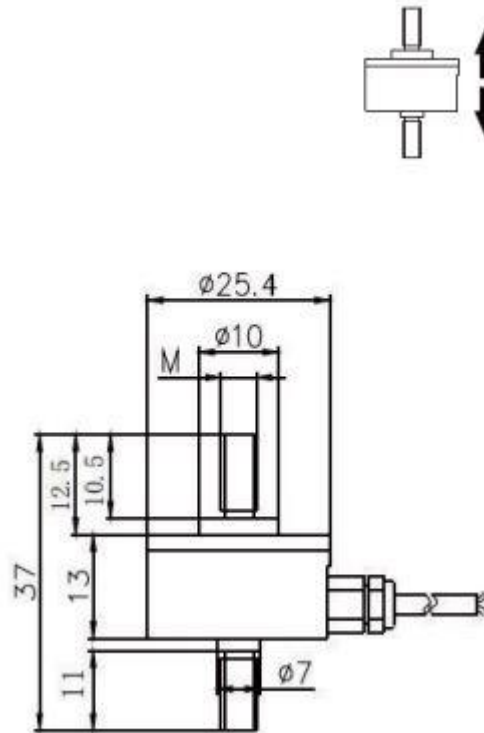
Specifications

Rated Load (N)	50/100/200/300/500/1000
Comprehensive Error	$\leq \pm 0.1\%F.S$
Rated Output	$2 \pm 10 \%mV/V$
Zero Balance	$\pm 2 \%F.S$
Linearity Error	$\pm 0.1 \%F.S$
Creep	$\pm 0.05\%F.S/30min$
Input Resistance	$700 \pm 10\Omega$
Output Resistance	$700 \pm 10\Omega$
Temp. Effect on Span	$\pm 0.05 \%F.S/10^{\circ}C$
Temp. Effect on Zero	$\pm 0.05 \%F.S/10^{\circ}C$
Compensated Temp. Range	$-10 \sim +60^{\circ}C$
Operating Temp. Range	$-20 \sim +80^{\circ}C$
Excitation (Recommended)	$5 \sim 15 V$
Safe Overload	$150\%F.S$
Ultimate Overload	$200\%F.S$
Insultation Resistance	$\geq 5000M\Omega (100VDC)$
Ingress Protection	IP66

Wiring Code

Exc+	Red	
Exc-	Black	
Sig+	Green	
Sig-	White	

Dimensions



Rated Load		Size
N	Kg.f	M
50/100/200/300/500	5/10/20/30/50	M5
1000	50/100	M6

Ordering Code

