DCL 670
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.

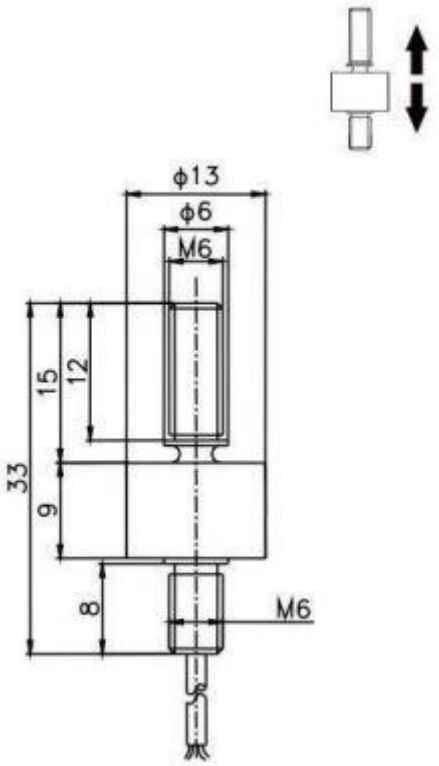
Specifications

Rated Load (N)	20/50/100/150/200/300/500/1000
Comprehensive Error	≤±0.5%F.S
Rated Output	1/2 ±20 %mV/V
Zero Balance	±2 %F.S
Linearity Error	0.5 %F.S
Creep	±0.25%F.S/30min
Input Resistance	800 ± 10Ω
Output Resistance	800 ± 5Ω
Temp. Effect on Span	±0.05 %F.S/10℃
Temp. Effect on Zero	±0.05 %F.S/10℃
Compensated Temp. Range	-10 ~ +60℃
Operating Temp. Range	-20 ~ +80℃
Excitation (Recommended)	5 ~ 10 VDC
Safe Overload	150%F.S
Ultimate Overload	200%F.S
Insultation Resistance	≥5000MΩ (100VDC)
Ingress Protection	IP66

Wiring Code

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

Dimensions



Ordering Code

005 C 03	22	P	9	2

Dim. Code	Force (N)
12	±20
15	±100
20	±100
22	±150
24	±200
26	±300
32	±500
40	±1000

Ingress Protection	
2	IP66

Comprehensive Error (%F.S)	
P	≤ ±0.5

Rated Output	
9	1.0/2.0 ± 20 % mV/V