Model RLC Compression Load Cell

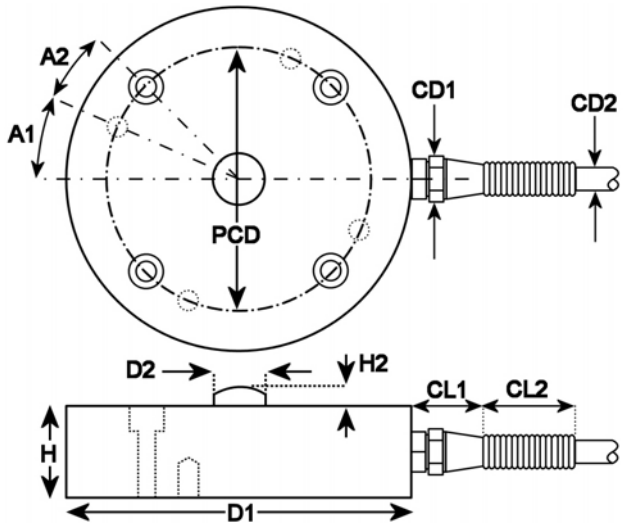
- Very high accuracy
- Infinite resolution
- Low cost

A load cell or force sensor is a device which converts load or force into an electrical signal.

A load cell should be mounted on a hard, flat surface. A compression load cell measures the force applied to the load button.

Care should be taken to ensure that the load sensor is not exposed to load or force in excess of its capability. The range of compression load cell selected should therefore be appropriate for the maximum force (including transient forces) that can be applied to it.

This series of transducer is a strain gauge type transducer and has a mV output which may require an amplifier. We can offer a variety of high quality, low noise and high precision strain gauge amplifiers.



A1= 22.5°
A2= 22.5°
CD1= 13.6mm
CD2= 5.05mm ±0.15mm
CL1= 22mm
CL2= 27mm

Type	Range	D1	H	D2	H2	PCD	Top (Drilled for cap-head screw)	Bottom (Mounting thread)
RLC00250	250kgf (2.5kN)	80mm	28mm	16mm	4.0mm	67mm	M6	M6, 12mm
RLC00500	500kgf (4.9kN)	82mm	28mm	17mm	4.5mm	68mm	M6	M6, 12mm
RLC01000	1000kgf (9.8kN)	82mm	28mm	17mm	4.5mm	68mm	M6	M6, 12mm
RLC02500	2500kgf (24.5kN)	100mm	32mm	25mm	6.0mm	83mm	M8	M8, 12mm
RLC05000	5000kgf (49kN)	100mm	32mm	25mm	6.0mm	83mm	M8	M8, 12mm
RLC10000	10000kgf (98kN)	116mm	39mm	37mm	7.0mm	96mm	M8	M8, 12mm
RLC15000	15000kgf (147kN)	121mm	40mm	38mm	9.0mm	100mm	M10	M10, 15mm

Specification	
Excitation/supply (acceptable)	0 to 15V
Excitation/supply (calibrated)	10V
Output	2mV/V ±10%
Zero balance	±2% F.S.
Bridge resistance	350/700Ohms nominal
Linearity error	±0.03% F.S.
Hysteresis	±0.03% F.S.
Repeatability	±0.03% F.S.
Resolution	Infinite
Temperature coefficient (zero)	±0.002% F.S. /°C (typical)
Temperature coefficient (span)	±0.002% F.S. /°C (typical)
Operating temperature range	-20°C to 60°C
Compensated temperature range	-10°C to 40°C
Ingress protection (IP)	65
Over-range capacity	50%
Major construction material	Steel
Electrical termination	3m (integral cable)

All dimensions and specifications are nominal.

Due to our policy of on-going development, specifications may change without notice. Any modification may affect some or all of the specifications for our equipment.

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