



Load

Model RLT Tension Load Cell

- Very high accuracy
- Infinite resolution
- Low cost

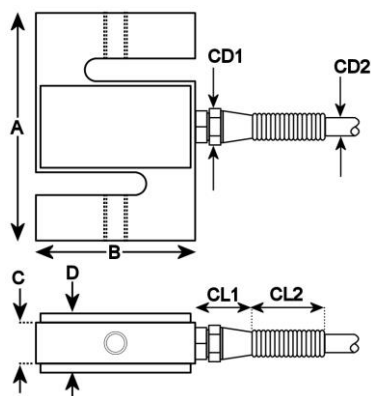


A load cell or force sensor is a device which converts load or force into an electrical signal.

A tension load cell measures the tension force applied between the top and bottom mounting threads.

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 tension 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.



CD1= 13.6mm
 CD2= 5.05mm ±0.15mm
 CL1= 22mm
 CL2= 27mm

Type	Range	A	B	C	D	Mounting thread
RLT0005	5kgf (49N)	63.5mm	50.8mm	12.7mm	19.1mm	M8 X 1.25
RLT0010	10kgf (98N)	63.5mm	50.8mm	12.7mm	19.1mm	M8 X 1.25
RLT0020	20kgf (196N)	63.5mm	50.8mm	12.7mm	19.1mm	M8 X 1.25
RLT0050	50kgf (491N)	63.5mm	50.8mm	12.7mm	19.1mm	M8 X 1.25
RLT0075	75kgf (736N)	63.5mm	50.8mm	12.7mm	19.1mm	M8 X 1.25
RLT0100	100kgf (981N)	76.2mm	50.8mm	19.1mm	25.4mm	M10 X 1.5
RLT0250	250kgf (2kN)	76.2mm	50.8mm	19.1mm	25.4mm	M12 X 1.75
RLT0500	500kgf (5kN)	76.2mm	50.8mm	19.1mm	25.4mm	M12 X 1.75
RLT0750	750kgf (7kN)	76.2mm	50.8mm	19.1mm	25.4mm	M12 X 1.75
RLT1000	1000kgf (10kN)	76.2mm	50.8mm	25.4mm	31.8mm	M12 X 1.75
RLT1500	1500kgf (15kN)	76.2mm	50.8mm	25.4mm	31.8mm	M12 X 1.75
RLT2000	2000kgf (20kN)	108.0mm	76.2mm	25.4mm	31.8mm	M18 X 1.5
RLT2500	2500kgf (25kN)	108.0mm	76.2mm	25.4mm	31.8mm	M18 X 1.5

Specification

Excitation/supply (acceptable)	0 to 15V
Excitation/supply (calibrated)	10V
Output	2mV/V ±10%
Zero balance	2% F.S.
Bridge resistance	350 Ohms
Linearity error	±0.03% F.S.
Hysteresis	±0.03% F.S.
Repeatability	±0.03% F.S.
Resolution	Infinite
Temperature coefficient (zero)	±0.003% F.S. /°C (typical)
Temperature coefficient (span)	±0.003% 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.

USA & Canada
 RDP Electrosense
 2216 Pottstown Pike
 Pottstown, PA 19465
 USA
 Tel: 610-469-0850
 Tel: 800-334-5838
 Fax: 610-469-0852
 Email: info@rdpe.com

Rest of the world
 RDP Electronics Ltd
 Grove Street, Heath Town
 Wolverhampton, West Midlands, WV10 0PY
 United Kingdom

Tel: +44 1902 457512
 Fax: +44 1902 452000
 Email: sales@rdpe.com
 URL: www.rdpe.com