

Model RLT Tension Load Cell

- Low cost
- Very high accuracy
- Infinite resolution

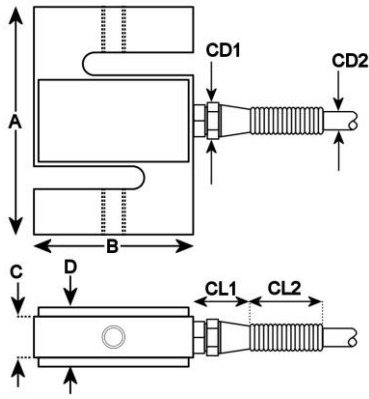


A load cell or force sensor is a device which converts load or force into an electrical signal.

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= 0.5"
 CD2= 0.20" ±0.01"
 CL1= 0.9"
 CL2= 1.1"

Type	Range	A	B	C	D	Mounting thread
RLT0005	5kgf (11lbs)	2.5"	2.0"	0.5"	0.8"	M8 X 1.25
RLT0010	10kgf (22lbs)	2.5"	2.0"	0.5"	0.8"	M8 X 1.25
RLT0020	20kgf (44lbs)	2.5"	2.0"	0.5"	0.8"	M8 X 1.25
RLT0050	50kgf (110lbs)	2.5"	2.0"	0.5"	0.8"	M8 X 1.25
RLT0075	75kgf (165lbs)	2.5"	2.0"	0.5"	0.8"	M8 X 1.25
RLT0100	100kgf (221lbs)	3.0"	2.0"	0.8"	1.0"	M10 X 1.5
RLT0250	250kgf (551lbs)	3.0"	2.0"	0.8"	1.0"	M12 X 1.75
RLT0500	500kgf (1.1klbs)	3.0"	2.0"	0.8"	1.0"	M12 X 1.75
RLT0750	750kgf (1.7klbs)	3.0"	2.0"	0.8"	1.0"	M12 X 1.75
RLT1000	1000kgf (2.2klbs)	3.0"	2.0"	1.0"	1.3"	M12 X 1.75
RLT1500	1500kgf (3.3klbs)	3.0"	2.0"	1.0"	1.3"	M12 X 1.75
RLT2000	2000kgf (4.4klbs)	4.3"	3.0"	1.0"	1.3"	M18 X 1.5
RLT2500	2500kgf (5.5klbs)	4.3"	3.0"	1.0"	1.3"	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)	±0.002% F.S. /°F (typical)
Temperature coefficient (span)	±0.002% F.S. /°F (typical)
Operating temperature range	-4°F to 140°F
Compensated temperature range	14°F to 104°F
Ingress protection (IP)	65
Over-range capacity	50%
Major construction material	Steel
Electrical termination	9.8ft (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.

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