

Model RLS Single-Point Compression Load Cell

- Very high accuracy
- Infinite resolution
- Low cost

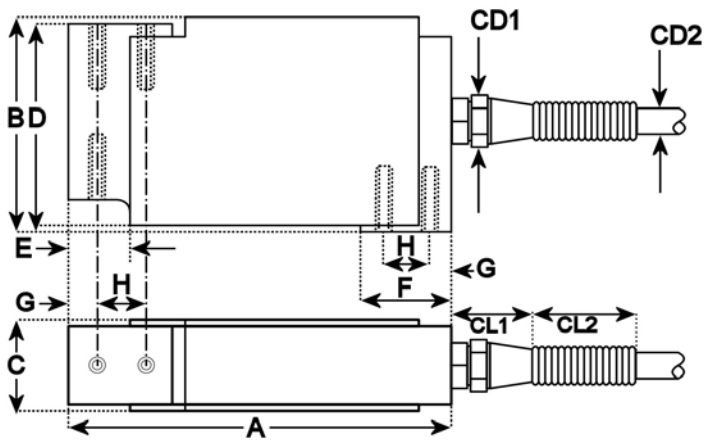


A load cell or force sensor is a device which converts load or force into an electrical signal.

A single-point compression load cell is designed for such applications as weighing scales.

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.



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

Type	Range	A	B	C	D	E	F	G	H	Mounting thread
RLS005	5kgf (49N)	118mm	63.5mm	30mm	63mm	20mm	32mm	7mm	19.05mm	M6, 25mm
RLS010	10kgf (98N)	118mm	63.5mm	30mm	63mm	20mm	32mm	7mm	19.05mm	M6, 25mm
RLS020	20kgf (196N)	118mm	63.5mm	30mm	63mm	20mm	32mm	7mm	19.05mm	M6, 25mm
RLS050	50kgf (491N)	118mm	63.5mm	30mm	63mm	20mm	32mm	7mm	19.05mm	M6, 25mm
RLS100	100kgf (981N)	118mm	63.5mm	30mm	63mm	20mm	32mm	7mm	19.05mm	M6, 25mm

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	±0.02% F.S.
Hysteresis	±0.02% F.S.
Repeatability	±0.02% F.S.
Resolution	Infinite
Temperature coefficient (zero)	±0.0025% F.S. /°C (typical)
Temperature coefficient (span)	±0.0025% 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	Aluminium alloy
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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