

PIN TYPE LOAD CELL



Description

The pin type load Cell is mainly for used in Crane weighing systems or in general where the load applied on a pin needs to be measured. The pins are mounted on machines in place of normal shafts and fitted with strain gauges allowing them to produce a signal proportional to the measured load.

The Load Pin has a highly secure and stable steel structure and is made of High Alloy Steel for resistance against shock and overload.

Operation

When force is applied to the Load Pin along it's sensitive axis, the effect on the strain gauge results in an output signal proportional to the force applied.

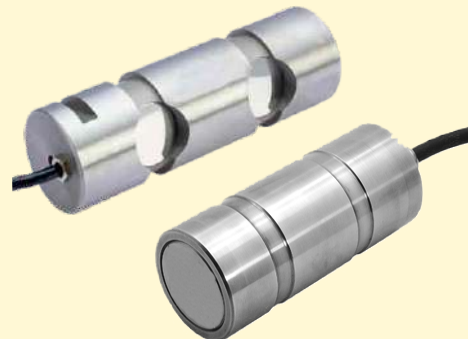
The diagram at the right shows the typical diagram how force is to be applied on the Pin Type Load Cell.

The load cell is then to be connected to an ADC based display system for calibration of the appropriate load for weighing / overload functionality.

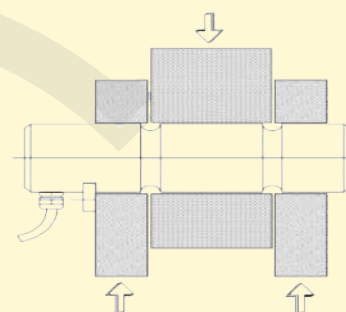
Specifications

Rated Output	2 mV/V
Nonlinearity	≤ 0.03%FS
Hysteresis	≤ 0.03%FS
Repeatability	≤ 0.02%FS
Creep	< 0.03%FS/30min
Zero Balance	≤ 1%FS
Input Resistance	350 ± 10Ω
Output Resistance	350 ± 3Ω
Insulation Resistance	≥ 5000MΩ
Safe Overload	150%FS
Ultimate Overload	200%FS
Recommended Supply voltage	5 ~ 12V
Use Temp Range	-10~+60° C
Zero Temp Coefficient	< 0.04%FS/10° C
Rated output Temp Coefficient	< 0.04%FS/10° C
Cable Flexible	4 core 5 meter

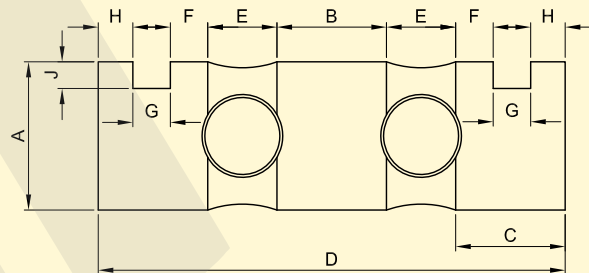
Shear Pin Load Cell



Load Pin Installation



Dimensions:



Capacity	A	B	C	D	E	F	G	H	J
500kg. to 1T	25	19	19	81	12	6.5	6.5	6	4.5
3T,5T	35	31	23.5	110	16	10	6.5	7	6
10T	50	41	38	157	20	19.5	8.5	10	7
20T	65	66	39	192	24	20.5	8.5	10	9.5
30T	75	76	50.5	225	24	28	10.5	12	10.5
50T	85	91	58.5	260	26	36	10.5	12	12
100T	100	100	76	328	38	53.5	10.5	12	14

NOTE : For load cell cable extension, use 4 core shielded cable 0.25sq. mm only.