

Double ended shear beam load cells

Features

- Range: 3k...75k lbs
- Double-ended center-loaded shear beam design
- Free horizontal displacement
- Insensitive to lateral loads
- Nickel-plated alloy steel surface
- Stainless steel material optional



Applications

- Silo/hopper/tank weighing
- Truck scale/railway scale
- Universal loading and unloading truck weighing

Description

In most cases, the double-end fixing method provides good suppression of possible displacement of the tank and eliminates the reliance on the control rod. The shear beam structure provides excellent performance for the measurement of larger loads. The output signal of the sensor has been standardized and compensated at the factory to facilitate the combined application of multiple sensors. DST products are made of alloy steel and have a protection level of It can reach IP66 and has good working performance even in wet environments. DST is also available in a stainless steel fully welded sealed version. It is ideal for truck scales/railway scales, container weighing and batching systems. DST is designed for multiple load cell combination applications, such as medium and high capacity tanks, silos and hopper weighing applications.

Size (mm)								
			L	L1	L2	W	H	D
								D1
量程 (klbs)	mm	109.5	158.8	35.4	31.7	31.7	31.7	41.1
	inch	8.25	7.25	6.25	1.94	2.97	2.00	1.63
3/5	mm	222.3	190.5	50.0	36.6	49.3	50.8	20.6
	inch	8.75	7.50	1.97	1.44	1.94	2.00	0.81
10/15/20/25	mm	342.9	292.1	82.6	62.0	74.4	76.2	33.3
	inch	13.5	11.50	3.25	2.44	2.94	3.00	1.31
50/75	mm							
	inch							

DST load cell

Specification		
Rated load	3k,5k,10k,20k,25k,50k,75k	lbs
Rated output	3.0±0.0075	mV/V
Zero output	±0.02	%R.O.
Nonlinearity	±0.025	%R.O.
Hysteresis	±0.025	
Creep (30 minutes)	±0.03	%R.O.
Repeatability	±0.02	%R.O.
Normal operating temperature range	-10~+40	°C
Allowable operating temperature range	-20~+70	°C
Effect of temperature on sensitivity	±0.02	%R.O./10°C
Effect of temperature on zero point	±0.02	%R.O./10°C
Recommended excitation voltage	5-12	VDC
Input impedance	760±10	Ω
Output impedance	700±5	Ω
Insulation impedance	≥5000 (50VDC)	MΩ
Safe overload	150	%R.C.
Ultimate overload	300	%R.C.
Elastic element material	Nickel-plated alloy steel	
Protection level	IP67	
Cable length	8/13	m

Product specifications are subject to change without notice.

Wiring

