

Double ended shear beam load cells

Features

- Range: 20k...125k 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 large loads. The output signal of the sensor has been standardized and compensated at the factory to facilitate the combination of multiple sensors. DSE products are made of alloy steel. The protection level can reach IP66, and it has good working performance even in humid environments. Optional stainless steel fully welded sealed version. It is an ideal choice for truck scales/railway scales, container weighing and batching systems. DSE is designed for the combination of multiple weighing sensors, such as medium and high capacity tanks, silos and hopper weighing applications.

Size (mm)									
量程 (klbs)		L	L1	L2	D	D1	D2	H	R
20	mm	206.3	174.8	133.1	49.5	37.9	16.8	28.5	12.7
	inch	8.12	6.88	5.25	1.95	1.49	0.66	1/12	0.50
30/40/50/60	mm	260.4	215.9	164.8	76.2	69.4	26.9	60.2	25.4
	inch	10.25	8.50	6.49	3.20	2.73	1.06	2.37	1.00
100	mm	285.8	241.3	190.2	88.9	82.3	26.9	63.5	25.4
	inch	11.25	9.50	7.49	3.50	3.24	1.06	2.50	1.00
150	mm	285.8	241.3	190.2	99.1	92.5	26.9	71.1	38.1
	inch	11.25	9.50	7.49	3.90	3.64	1.06	2.80	1.50

DSE load cell

Specification		
Rated load	20k,25k,40k,50k,60k,75k,100k,125k	lbs
Rated output	3.0±0.0075	mV/V
Zero output	±1	%R.O.
Comprehensive error	±0.02	%R.O.
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

