

Dual Shear Beam

HQS07 – Double-Ended Shear Beam Load Cell



The HQS07 is a double-ended shear beam load cell designed for truck scales, railway scales, axle weighing platforms, floor scales, and warehouse weighing systems.

This type of load cell is suitable for both new installations and modernization of vehicle, railway, and tank weighing systems. Thanks to its high metrological characteristics, HQS07 is widely used in demanding industrial applications and can serve as an alternative to compression column load cells.

The load cell features a robust alloy steel or stainless steel housing with IP68 hermetic sealing, providing excellent resistance to overloads, side loads, moisture, and dust.

Key Features:

- Rated capacities: 30.5 klb, 60 klb, 75 klb
- High accuracy: combined error $\leq \pm 0.02\%$ of full scale
- Ultimate overload: 250% of full scale

Specification

Rated load (E _{max})	30,50,60,75Klb	Insulation resistance	$\geq 5000M\Omega$
Sensitivity	$3.0 \pm 0.003\% mV/V$	Operating Temp Range	$(-30 \sim +70)^\circ C$
Combined error	$\pm 0.02\% F.S$	Safe load limit	150 % F.S
Creep/30min	$\pm 0.02\% F.S/30min$	Ultimate overload	250%F .S
Zero balance	$\pm 1\% F.S$	Recommend excitation	10~12V(DC or AC)
TCO	$\pm 0.02\% F.S/10^\circ C$	Max excitation	15V DC
TC SPAN	$\pm 0.02\% F.S/10^\circ C$	Protection Class	IP68
Input resistance	$750 \pm 10\Omega$	Material	Alloy steel Stainless steel
Output resistance	$703 \pm 3\Omega$	Cable	Length: 12m Diameter: $\varnothing 6mm$

Main Dimensions

