

▶ Double Shear Beam Load cell *D50S*



Features

- ▶ Material: Alloy steel, primed
- ▶ Nominal load: 10,000 kg
- ▶ Construction: The measuring element is potted
- ▶ Protection class: IP66
- ▶ Simple mounting
- ▶ Particularly robust for tough continuous use in industrial applications
- ▶ Compatible with other manufacturers

Scope of application:

- ▶ Container weighing in vehicles
- ▶ In-vehicle weighing systems - On board weighing
- ▶ Refuse collection vehicles and collection lorries
- ▶ In test benches

Double Shear Beam Load cell D50S

Double bending load cell with parallel load introduction

The D50S is a double shear beam load cell with a parallel load introduction made from high quality alloy tool steel. This heavy duty load cell is ideal for on-board weighing applications such as container weighing in vehicles, waste collection vehicles and removal trucks with and without trailers. As a vertical force sensor, the D50S delivers extremely precise and reproducible measurement results even in long-term use in harsh industrial environments.

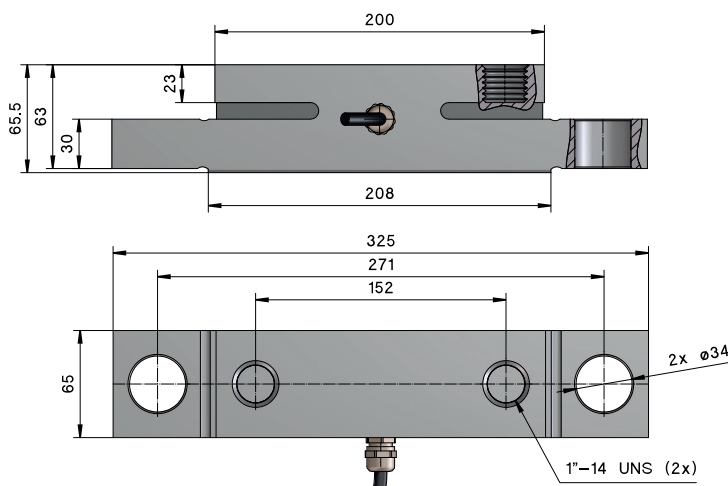
The load cell is laser-welded and meets the requirements of protection class IP66.

The heavy-duty load cell is largely insensitive to lateral forces and does not require any additional links or mounting parts and is firmly fixed mechanically. This enables machine and container weighing even with vertical and horizontal loads or vibrations.

TECHNICAL DETAILS

Accuracy class according to OIML R 60		G2
Nominal load (E_{max})	kg	10.000
Number of division values (n_{LC})		3000
Nominal value (C_n) / Characteristic tolerance	mV/V	0,82 / $\pm 0,1$
Minimum preload (E_{min})		0
Limit load (EL)	% from E_{max}	150
Breaking load (Ed)		300
Recommended supply voltage (U_{ref})	V	5 - 15
Maximum permissible supply voltage (BU)		15
Zero adjustment	% v. C_n	1 %
Input resistance (RLC) at reference temperature	Ω	385 ± 20
Output resistance (RO) at reference temperature	M Ω	350 ± 3
Insulation resistance	M Ω	$> 5\,000$
Nominal temperature range (BT)		- 10 ... + 40
Protection class according to (DIN 40.050 / EN 60529)		IP 66
Cable length		10 m, $\varnothing 7,5\text{mm}$
Material		Primed steel

TECHNICAL DRAWINGS



Elektrischer Anschluss 4 -Leiter - Kabel

