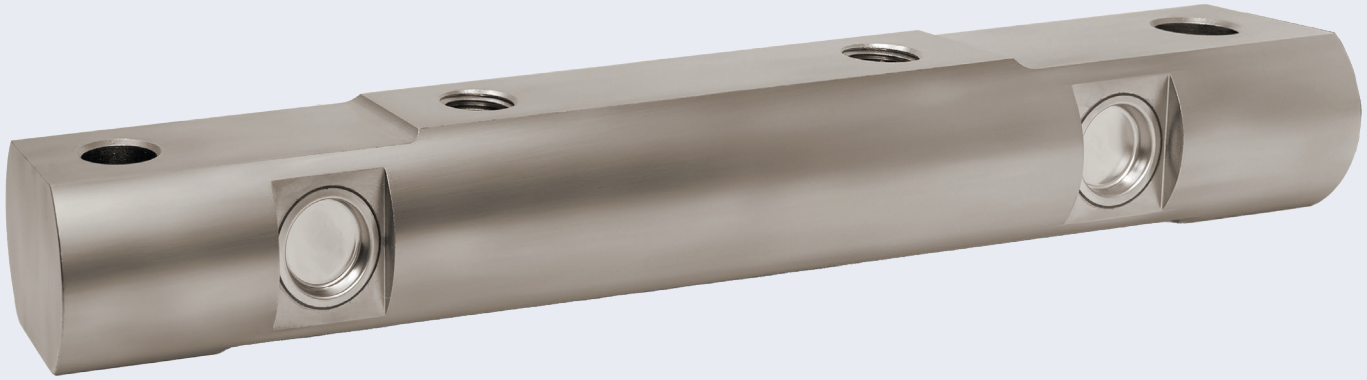
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Double Shear Beam load cell *D41S*



Features





- Material: high-quality alloy steel, nickel-plated
- Rated load: 20,000 kg
- Laser-welded measuring element to protect the strain gauges
- Protection class: IP65
- Simple and robust installation
- Suitable for demanding continuous use in industrial environments
- Compatible with selected load cells from other manufacturers

Applications

- On-board weighing systems
- Tipper trucks, feed mixers, grain trailers,
- Trailers, slurry tankers,
- Refuse collection vehicles and other commercial vehicles,
- For mounting pillow blocks or use in test benches.

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Double Shear Beam load cell *D41S*

Double-ended shear beam load cells for on-board weighing systems

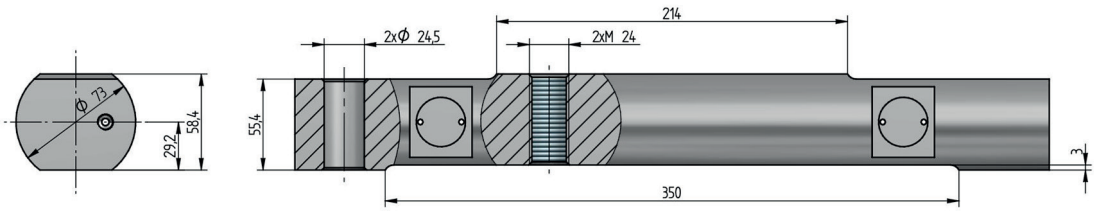
The D41S is a low-profile double-ended shear beam load cell with parallel load introduction, made from high-quality alloy tool steel. This robust heavy-duty load cell is ideal for on-board weighing applications, such as container weighing on vehicles, refuse collection vehicles, trailers and semi-trailers.

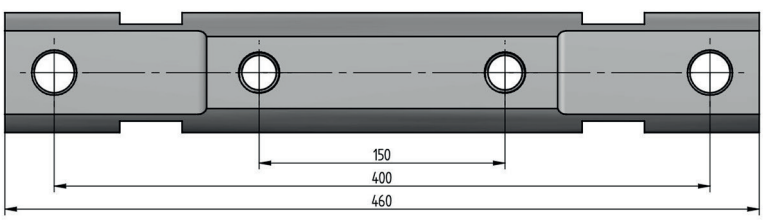
The D41S vertical force sensor delivers precise and repeatable measurement results, even in long-term use under harsh industrial, vehicle and agricultural conditions. The strain gauges are protected by a laser-welded measuring element, ensuring reliable shielding against demanding operating environments.

TECHNISCHE DETAILS

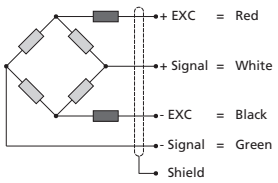
Accuracy class according to OIML R 60		G3
Rated capacity (E_{max})	kg	10.000, 15.000, 20.000, 30.000
Number of load cell intervals (n_{LC})		3000
Rated output (C_n) / output tolerance	mV/V	2,2 ± 0,01
Minimum dead load (E_{min})		0
Safe load limit (EL) **Breaking load (Ed)**	% of Emax	120 200
Recommended excitation voltage (Uref) **Maximum permissible excitation voltage (BU)**	V	5 - 15 15
Zero balance	% v. Cn	≤ ± 1
Input resistance (RLC) at reference temperature	Ω	400 ± 50
Output resistance (RO) at reference temperature	Ω	350 ± 3
Insulation resistance	MΩ	> 5 000
Rated temperature range (BT)		- 10 ... + 40
Protection class according to DIN 40 050 / EN 60529		IP 65
Cable length		9 m
Material		Alloy steel

TECHNICAL DRAWING





Electrical Connection
4-Wire Cable



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