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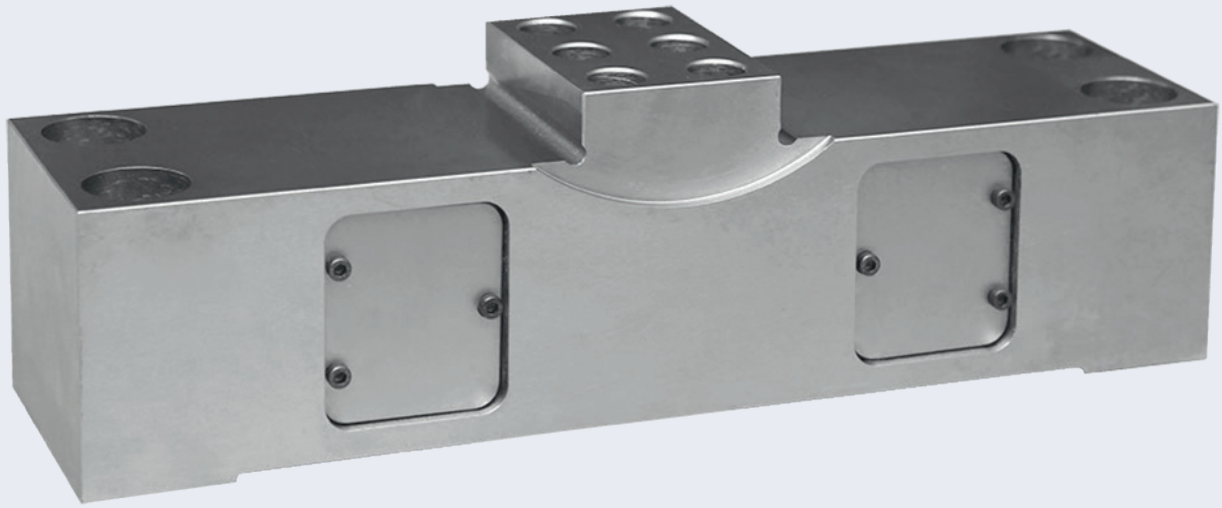
Weighbeam *D55S*



Features

- Material: Alloy steel, nickel-plated
- Nominal load: 50,000 - 200,000 kg
- Construction: The measuring element is encapsulated and protected
- Protection class: IP65
- Compact, very flat construction
- Simple mounting
- Cable connection via plug connection IP66
- Particularly robust for tough continuous use in industrial environments
- Easy to maintain: Connector directly on the load cell makes cable replacement child‘s play
- Optionally available with extended service temperature range up to 150°C
- Compatible with other manufacturers

Scope of application:

- Steel industry, metal industry
- Ladle ferries, scrap basket scales
- Tundish scales
- Roller table scales
- Silo scales
- Hopper scales also in the high temperature range

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Weighbeam *D55S*

Low profile high capacity load cell

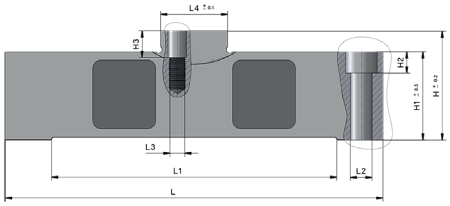
Ultra-flat high-load load cell for the metal industry - The D55S weigh beams are characterised especially by their extremely low design. The double shear force transducer was designed for extremely harsh environmental conditions and is mainly used in the steel industry. These balance beams are double shear force transducers which provide extremely precise and reproducible measuring results even in long-term use in harsh industrial environments. Due to the double shear force principle, the weigh beam is largely insensitive to lateral forces and does not require any additional links or installation parts. The load cell is particularly easy to maintain, as the connection cable is interchangeably connected via a plug-in connection.

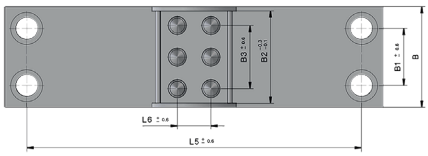
The double shear force transducers can be connected in 6-wire technology, so that exact measuring results can be achieved even with long supply cable lengths or occurring temperature differences by readjusting the supply voltage. Of course, a 4-wire connection is also possible. To do this, simply short-circuit the supply voltage with the corresponding sense line.

TECHNICAL DETAILS

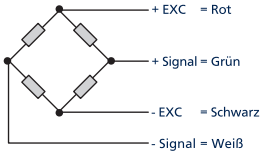
Accuracy class according to OIML R 60		G3
Nominal load (E_{max})	kg	50.000, 100.000, 150.000, 200.000
Number of division values (n_{LC})		3000
Nominal value (C_n) / Characteristic tolerance	mV/V	1,08 (50t); 1,38 (100t); 1,57 (150t); 1,63 (200t) / ± 0,07
Minimum preload (E_{min})		0
Limit load (EL)	% from Emax	120
Recommended supply voltage (Uref) **Maximum permissible supply voltage (BU)**	V	5 - 12 15
Zero adjustment	% v. Cn	≤ ± 1
Input resistance (RLC) at reference temperature	Ω	756 ± 6
Output resistance (RO) at reference temperature	Ω	700 ± 4
Insulation resistance	MΩ	> 5 000
Protection class according to (DIN 40.050 / EN 60529)		IP 65
Cable length		On request
Material		Alloy steel

TECHNICAL DRAWINGS





Elektrischer Anschluss
4 -Leiter - Kabel



Load	L	L1	L2	L3	L4	L5	L6	H	H1	H2	H3	B	B1	B2	B3
50 t	450	340	26	M20*30	80	398	40	130	105	25,5	32	120	68	110	75
100 t	500	370	30	M24*36	90	444	44	143	118	28,5	38	140	80	130	90
150 t	560	410	33	M24*36	90	500	44	158	133	32	38	160	94	150	102
200 t	620	450	33	M24*40	90	560	44	175	150	32	40	180	114	160	110

Alle Angaben in mm I Technische Änderungen vorbehalten

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