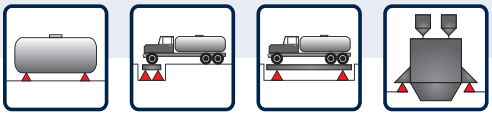
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Double Shear Beam Load Cell *D20S*

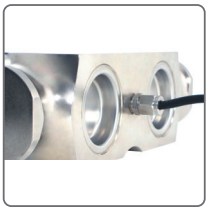




Features







- Material: Alloy steel or stainless steel
- Nominal load: 30-75 klb
- Hermetically sealed - laser welded, protection class: IP65
- Construction: Measuring element is laser welded
- Parallel force application at cell ends with central support
- Particularly robust for tough continuous use in industrial applications
- Compatible with other manufacturers

Scope of application:

- Track scales
- Truck scales
- Force measurements in the process industry

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Double Shear Beam Load Cell *D20S*

End loaded double shear beam load cells

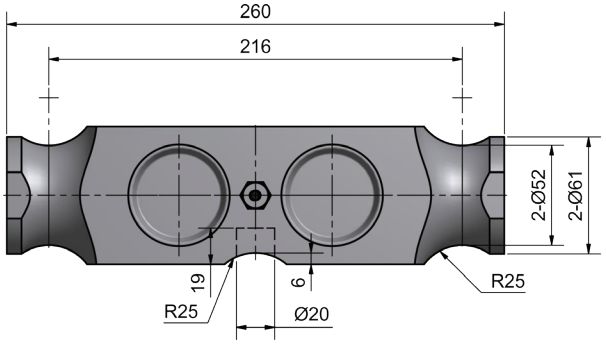
The D20S is an end-loaded, centrally supported double shear beam load cell made of high-quality alloy tool steel. Due to the parallel force application with central support, this load cell is largely insensitive to eccentric or lateral loads.

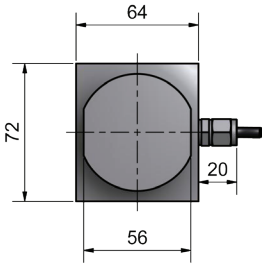
The D20S load cell delivers extremely precise and reproducible measurement results even in long-term use in harsh industrial environments. The load cell is laser-welded and meets the requirements of protection class IP65.

TECHNICAL DETAILS

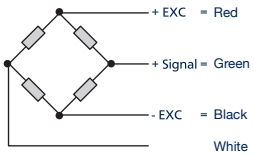
Accuracy class according to OIML R 60		G3
Nominal load (E_{max})		30 klb, 50 klb, 60 klb, 75 klb
Number of division values (n_{LC})		3000
Nominal value (C_n) / Characteristic tolerance	mV/V	3,0 ± 0,003
Minimum preload (E_{min})		0
Limit load (EL) **Breaking load (Ed)**	% from Emax	150 250
Recommended supply voltage (Uref) **Maximum permissible supply voltage (BU)**	V	5 - 15 15
Zero adjustment	% v. Cn	1 %
Input resistance (RLC) at reference temperature	Ω	750 ± 10
Output resistance (RO) at reference temperature	MΩ	702 ± 3
Insulation resistance	MΩ	> 5 000
Nominal temperature range (BT)		- 10 ... + 40
Service temperature range (Btu):		- 30 ... + 70 °C
Protection class according to (DIN 40.050 / EN 60529)		IP 65
Cable length		15,5 m
Material		Alloy steel

TECHNICAL DRAWINGS





Electrical connection
4-wire-cable



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BOSCHE GmbH & Co. KG
Reselager Rieden 3
49401 Damme