

Double-Ended Beam Load Cell

FEATURES

• Capacities: 1k to 75k lbs

• Environmental protection: IP67 (DIN 40.050)

• Material: nickel-plated steel

· Center-loaded design

Optional

- FM certified versions are available for use in potentially explosive atmospheres

APPLICATIONS

- Silo, tank, hopper weighing
- · Custom system designs
- · Low capacity vehicle scales

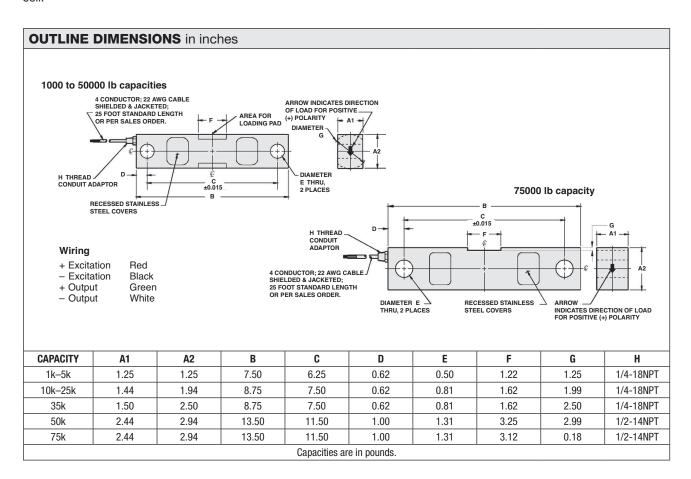
DESCRIPTION

The Model 5203 is a double-ended shear beam type load cell.



A reliable sealing and mechanical protection of the strain gage area is ensured by the use of potting compound with a metal cover.

The center-loaded design results in minimal sensitivity to off-center forces.





Double-Ended Beam Load Cell

SPECIFICATIONS		
PARAMETER	VALUE	UNIT
Standard capacities (E _{max})	1k, 1.5k, 2k, 2.5k, 5k, 10k, 15k, 20k, 25k, 35k, 50k, 75k	lbs
Accuracy class	Non Approved - D3	
Rated output (=S)	3	mV/V
Rated output tolerance	0.008	±mV/V
Zero balance	1.0	±% FSO
Combined error	0.03	±% FSO
Creep error (20 minutes)	0.03	±% FSO
Temperature effect on minimum dead load output	0.0015	±% FSO/°F (/5°C)
Temperature effect on sensitivity	0.0008	±% FSO/°F (/5°C)
Maximum safe overload	150	% E _{max}
Ultimate overload	300	% E _{max}
Maximum safe side load	100	% E _{max}
Excitation voltage	10	V
Maximum excitation voltage	15	V
Input resistance	700±14	Ω
Output resistance	697±4	Ω
Insulation resistance	≥1000	ΜΩ
Compensated temperature range	-10 to +40 (+14 to +104)	°C (°F)
Operating temperature range	-18 to +65 (0 to +150)	°C (°F)
Element material (DIN)	Nickel-plated alloy steel	<u> </u>
Sealing (DIN 40.050 / EN60.529)	IP67	

FSO-Full Scale Output

All specifications subject to change without notice.



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