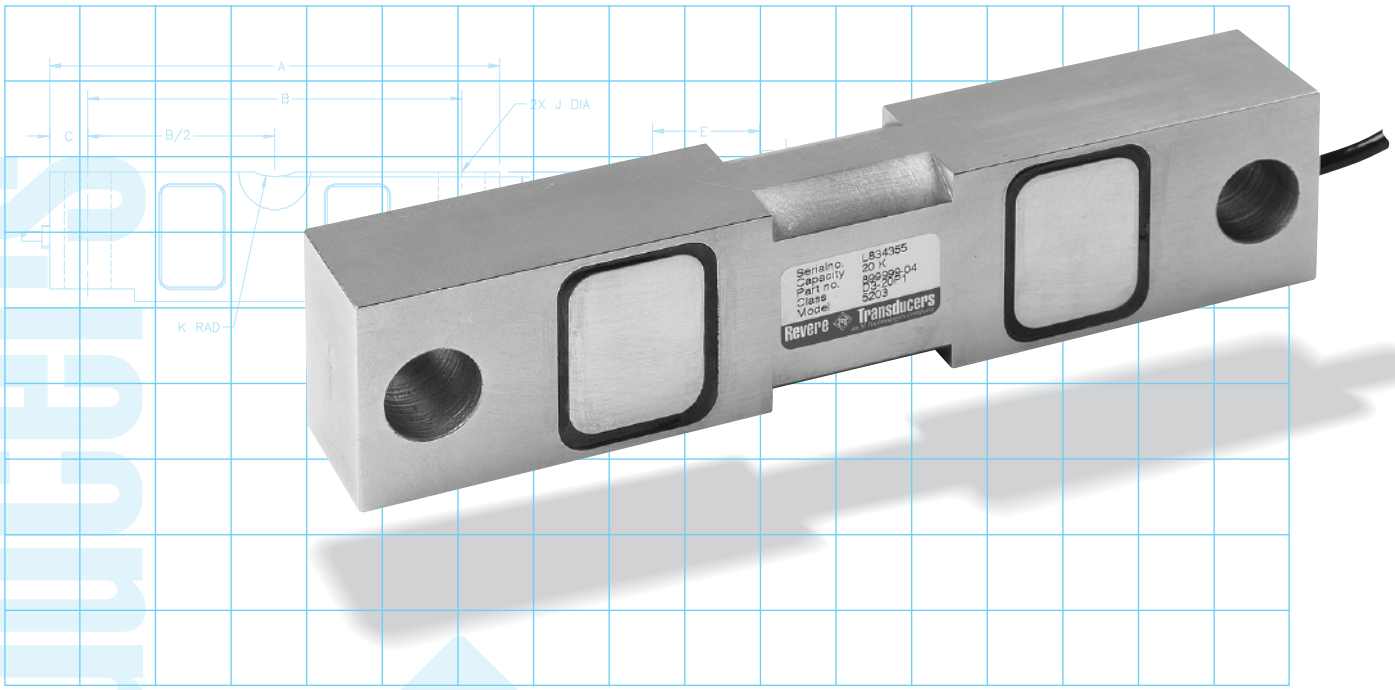
5203 DOUBLE ENDED BEAM LOAD CELL



FEATURES:

- Capacities: 1 to 75K lbs
- Environmental protection: IP67 or IP68 (DIN 40.050)
- Material: Nickel Plated Steel
- Center loaded design

APPLICATIONS:

- Silos, Tanks and Hoppers
- Custom system designs
- Low capacity vehicle scales

DESCRIPTION:

The 5203 is a Double Ended Shear Beam type load cell.

A reliable sealing and mechanical protection of the strain gauge 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.

APPROVALS:

FM APPROVED — Factory Mutual

Revere Transducers
an SI Technologies company

5203: SPECIFICATIONS

Parameter	Symbol	Unit of Measure	Specification
			Imperial
Capacities	E_{max}	lb	1K, 1.5K, 2K, 2.5K, 4K, 5K, 10K, 15K, 20K, 25K, 35K, 50K, 75K
Accuracy Class			D3
Accuracy Class According to			Non-NTEP
Potentially Explosive Atmospheres options			Factory Mutual
Maximum number of Verification Intervals	n_{lc}		
Minimum Verification Interval	v_{min}		
Combined Error[1]		±%S	0.03
Creep error (20 minutes)		±%S	0.03
Temperature Effect on Zero	TC_O	±%FS/5°C (/°F)	0.0135 (0.0015)
Temperature Effect on Output	TC_S	±%S/5°C (/°F)	0.0072 (0.0008)
Rated Output	FS	mV/V	3 ± 0.008
Compensated Temperature Range	T_{cps}	°C (°F)	-10 to +40 (+14 to +104)
Operating Temperature Range	T_{opr}	°C (°F)	-53 to +93 (-65 to +200)
Environmental Protection			IP67
Cable Length		m (ft)	6 (20)
Cable Type			4 Wire Shielded, shield is not connected to load cell body
Zero Balance		±%FS	1.0
Safe Load Limit	E_{lim}	$\%E_{max}$	150
Ultimate Load	E_{ult}	$\%E_{max}$	300
Safe Side Load Limit		$\%E_{max}$	100
Excitation Voltage		Volts AC or DC	10 Recommended, 15 Maximum
Input Resistance		Ohms	700.0 ± 7.0
Output Resistance		Ohms	700.0 ± 7.0
Insulation Resistance at 50 VDC		Mega Ohms	>5000
Element Material		ASTM	Nickel Plated Steel

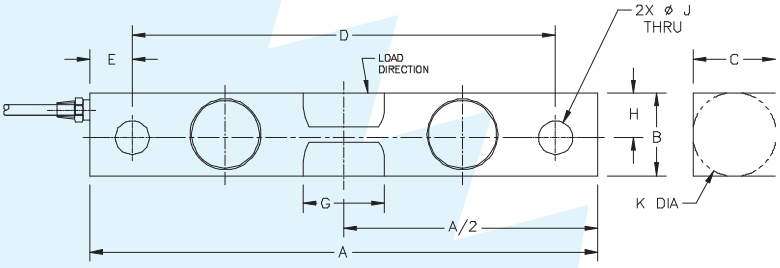
Notes:
- We continually improve our products and therefore specifications are subject to change without notice.
- The accuracy may be affected if 4-wire load cell cables are shortened.

[1] Includes the effects of Non-Linearity and Hysteresis.

Wiring color code:

Excitation +	Red
Excitation -	Black
Output +	Green
Output -	White
Shield	Tranparent

	Dimensions in inches		
Capacity	1 K - 5 K	10 K - 35 K	50 K, 75K
A	7.50	8.75	13.50
B	1.22	1.94	2.94
C	1.22	1.44	2.44
D	6.25	7.50	11.50
E	0.62	0.62	1.00
G	1.20	1.62	3.25
H	0.66	0.97	1.47
ØJ	0.50	0.81	1.31
ØK	1.24	2.00	2.99



Mounting:
Correct mounting of the load cells is essential to ensure optimum accuracy and performance. Further information is available on request.

Mounts and weighing assemblies available for 5203.

Attention: All dimension tolerances according to ISO 2768m, unless otherwise specified.

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