

Loadcell Model 3340

Product Specification



For use in: Heavy Duty Mining and Special Applications.



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Assembly Numbers

29/SPB3340VB Loadcell only (shown)
29/SPB3340VU Loadcell, unitised with bearing plates

Structural Configuration

Double ended, rigid-mount shear beam
Compression loading

Bare Weight	30.8kg	Static Capacity
Unitised Weight	49.4kg	4,800kg

Dynamic Capacity	Safe Overload
32,000kg	150% of Static Capacity

Ultimate Overload

Minimum of 300% of Static Capacity

Loadcell Body Material

4340

Bearing Plate

21/63-00606 single piece weld-down ASTM Steel

Top Mounting Bolts(4)

1"-14TPI x (Length dependent on mountings)
Grade 8, Recommended torque: 945Nm(700ft/lb)

Tie Down Bolts(4)

90/982516 1"-14TPI x2-1/2" Grade 8
Recommended torque: 945Nm(700ft/lb)

Connector

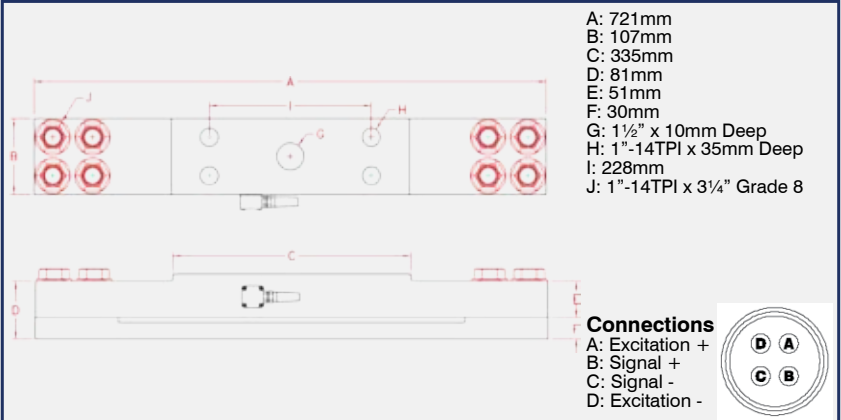
4 pin Military style, injection moulded

Cable

Custom 4 core with polyurethane jacket

Electrical

Excitation:	15 volts (AC or DC) 5-10 volts recommended
Output:	0.5.mv/v @ 25,400kg
Impedence:	350Ω +/- 1.0Ω
Isolation:	500MΩ at 50 volts



Mounting Requirements

Top Plate must be dead stiff and machined flat after welding.
 Bottom Mounting must be dead stiff.
 Bearing plate must be welded using 10mm fillet.
 Across ends and 100mm down each side towards centre. Also in centre both sides for 50mm.

Capacity

Maximum Dynamic Load	32,000kg (70,500 lb)
Maximum Static Load	48,000kg (105,800 lb)
Top bolt thread engagement into loadcell	Min: 25mm Max: 32mm

Bolt Tensions

1" Top mounting bolts = 945Nm(700ft/lb)
 1" End mounting bolt = 945Nm(700ft/lb)

Coat all bolts with anti-seize

Precautions

Do not strike an Arc on the loadcell body with a welder. It is OK to use the loadcell to position the Mounting Bushes for tack welding only. Remove the loadcell to complete the welding procedure.
 Do not damage the cover plate as this protects delicate strain gauges.
 Take care to protect the loadcell connector/cable as this can not be replaced in the field.
 Fit protection for the loadcell connector from stones and foreign objects which may damage it.
 Do not damage or paint over the Part/Serial Number identification tag.

IMPORTANT

Loadcell must be mounted in accordance with Elphinstone instructions. Failure to do so may void warranty. Specifications subject to change without notice. These specifications supercede all previous specifications as of October 2006.

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