

Loadcell Model 2300

Product Specification



For use in: loremipsumdolorsitamet

PROUDLY AUSTRALIAN



www.elph.com.au

Assembly Numbers

29/BBB2300VB Loadcell only (shown)

29/BBB2300VU Loadcell, unitised with bearing plates

Structural Configuration

Double ended, rigid-mount bending beam

Compression loading

Base Weight

7.3kg

Static Capacity**Unitised Weight**

13.6kg

12,600kg

Dynamic Capacity

6,300kg

Safe Overload

150% of Static Capacity

Ultimate Overload

Minimum of 300% of Static Capacity

Loadcell Body Material

4340 alloy steel, heat treated to 180,000psi yield strength

Bearing Plate

21/63-02300, single piece weld-down, ATSM A514 Steel

Top Mounting Bolts(4)

$\frac{3}{4}$ "-16TPI x (Length dependent on mountings) Grade 8

Recommended torque: 470Nm(350ft/lb)

End Mounting Bolts(4)

90/882212Z $2\frac{1}{4}$ "-16TPI x $\frac{3}{4}$ " Grade 8

Recommended Torque: 470Nm(350ft/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:

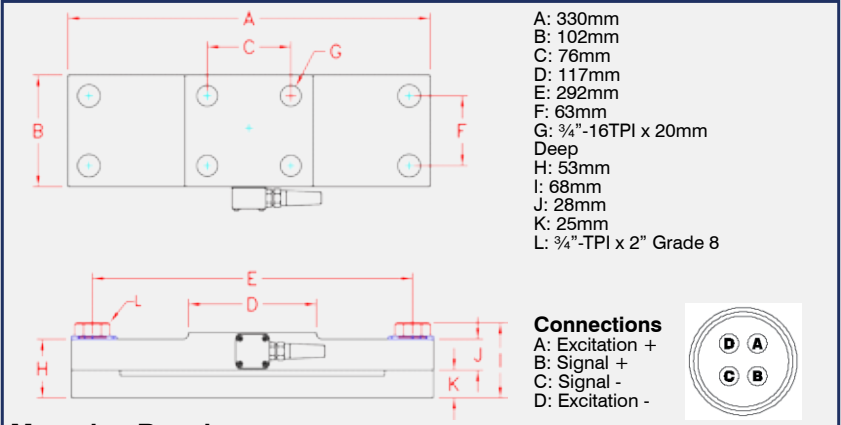
0.25.mv/v @ 6,300kg

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	6,300kg (13,800 lb)
Maximum Static Load	12,600kg (27,800 lb)
Top bolt thread engagement into loadcell	Min: 16mm Max: 22mm

Bolt Tensions

3/4" Top mounting bolts = 470Nm(350ft/lb)
 1-1/4" End mounting bolt = 470Nm(350ft/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.

PROUDLY AUSTRALIAN



1800 030 019
www.elph.com.au

**Tasmania
Head Office**

Address: 36 Tasman Highway, Triabunna, TAS 7190
Phone: (03) 6257 3242
Fax: (03) 6257 3573
Email: tri.office@elph.com.au

**Victoria
Mainland Office**

Address: 670 Somerville Road, Sunshine West, VIC
3020
Phone: (03) 9311 6366
Fax: (03) 9311 6466
Email: vic.office@elph.com.au