

Model 3510 and 3510T Compact Shear Beam Load Cell

NOVA WEIGH

Capacities: 300 kg 2,000 kg
 500 kg 5,000 kg
 1,000 kg

- Fully welded stainless steel construction, sealed to IP68 and suitable for wash-down applications
- Three year warranty
- Ideal for vessel weighing and platform scales
- ATEX certified II I GD T85°C EEx ia IIC T6 - suitable for Gas and Dust hazards 
- Optional 'Factory Mutual' Ex approval
- OIML and NTEP approvals for Legal-for-Trade weighing applications

3510 load cell



3510-T load cell

3510 and 3510T load cells

These cells are highly accurate shear beam load cells ideal for hopper and vessel weighing applications as well as precision platform scales.

The 3510T is a version optimised for use in weigh scales. It differs in the detail of the loading hole and is current matched to ensure that, in weigh scales, corner 'trimming' is not required.

Welded stainless steel construction

Welded stainless steel covers protect the gauge area of the 3510 and the cable entry point (a weak point for some cells) is protected by a high integrity compression gland.

The 3510 can be used in wet and wash down areas without risk of damage due to moisture ingress.

ATEX certification for use in hazardous areas

The 3510 and 3510T are certified intrinsically safe in line with the ATEX Directive (94/9/EC). They both meet the requirements for use in the most stringent zones including areas subject to hazards caused by both gas and dust.

Signal cable

The load cell has an integral five-metre cable. This is polyurethane sheathed with dual shielding. The use of six-cores means that the sense circuit of a weighing instrument can monitor the supply voltage at the cell allowing accurate compensation for voltage drops in the cable.

Mounting ancillaries

Nova Weigh has a range of mounting systems for the 3510 and 3510T. These include mounting feet for weigh scales and vessel weighing systems including Compact LoadMount the complete solution for accurate vessel weighing including process vessels and reactors.

Technical Specification

Grade	C3**
Rated capacities	300, 500, 1,000, 2,000, 5,000 kg
Rated output	2.0 mV/V \pm 0.1%
Total error*	\pm 0.020% of applied load
Zero return after 30 mins	\pm 0.017% of applied load
Zero balance	\pm 2.0% of rated output
Temperature range Operating Compensated	-30°C to +80°C -10°C to +40°C
Temperature effect On output On zero	0.0012°C of applied load 0.0011°C of rated output
Safe overload	150% of rated capacity
Ultimate overload	300% of rated capacity

*Total error - according to OIML R60
**Standard 25% utilisation - other utilisation factors available on request

Excitation Recommended Maximum	10 Vac or dc 15 Vac or dc
Input impedance	400 ohms \pm 20 380 ohms \pm 10 (3510T version)
Output impedance	350 ohms \pm 3 375 ohms \pm 25 (3510T version)
Insulation impedance	>1,000 megaohms
Deflection at rated capacity	<0.4 mm
Construction	Stainless steel
Environmental protection	IP68
ATEX certification	II I GD T85°C EEx ia IIC T6 (-20°C \leq T _{amb} \leq +40°C) II I GD T115°C EEx ia IIC T4 (-20°C \leq T _{amb} \leq +70°C)
Cable	5m (standard) 6 wire, polyurethane jacket, dual floating screen

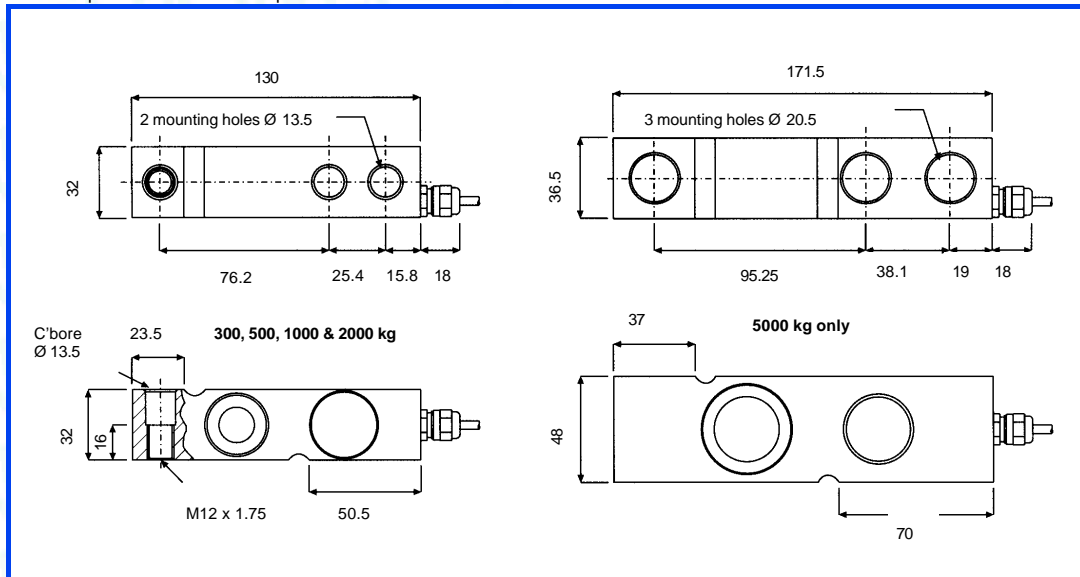
Dimensions

Electrical connections:

+ve sense Green -ve sense Grey
+ve input Blue -ve input Black
+ve output White -ve output Red

Notes:

3510 Half plain and half metric threaded (except 5,000 kg cell which is plain)
3510T Supplied with blind hole for compatible mounting foot



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BS EN ISO 9001:2000 Cert No: FM 11445

Nova Weigh's policy of constant product development dictates that we may alter specifications and or the appearance of our product range without notice.