

T85-N



SHEAR BEAM LOAD CELL FOR INDUSTRIAL WEIGHING

capacities 300kg - 2000kg

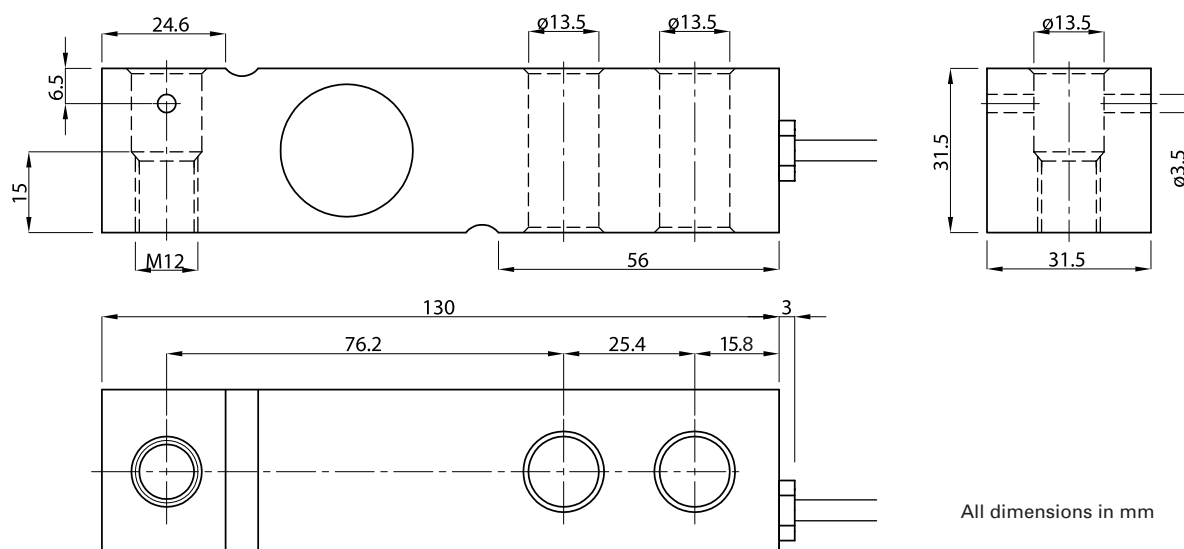


The T85-N low cost shear beam load cell is ideal for applications where a fully welded, hermetically sealed, stainless steel load cell is not required. It is manufactured from alloy steel and nickel plated, with the strain gauged pockets protected by a silicone compound giving protection to IP66.

This cell is typically used in weighing platforms, tank and vessel weighing, big-bag (FIBC) filling machines and conveyors. It is approved to OIML R60 3000 divisions and calibrated in mV/V/ Ω by output current matching – which minimises corner correction time on multi-cell platform scales.

- Nickel plated steel alloy load sensor
- Cost effective
- Silicone sealed to IP66; PVC cable
- 3000 divisions OIML R60 Class C approval (C3)
- Simple low cost installation
- Calibrated in mV/V/ Ω
- 5 year warranty
- Industry standard configuration
- Optional load feet or mounting plate/spacer kit
- Optional anti-vibration loading assembly

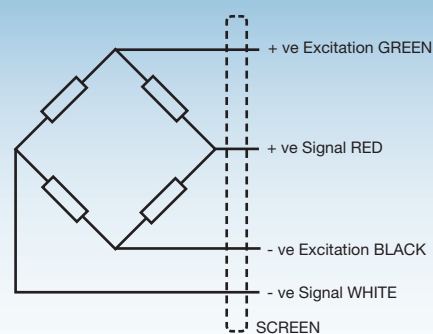




T85-N Load Cell

	Load cell specification	Units
Load Cell Capacity (E_{\max})	300, 500, 750, 1000, 1500, 2000	kg
Rated Output (S_n)	2	mV/V*
Accuracy Class according to OIML R60: number of verification intervals (n)	3000	n.OIML
Combined Error	$< \pm 0.017$	% S_n
Non-repeatability	$< \pm 0.015$	% S_n
Minimum load cell verification interval (v_{\min}) = E_{\max} / Y	$E_{\max} / 10000$	kg
Creep (30 minutes)	$< \pm 0.016$	% S_n
Temperature Effect on Zero Balance	$< \pm 0.002$	% $S_n / ^\circ\text{C}$
Temperature Effect on Span	$< \pm 0.0012$	% $S_n / ^\circ\text{C}$
Compensated Temperature Range	-10 to +40	$^\circ\text{C}$
Operating Temperature Range	-30 to +70	$^\circ\text{C}$
Safe Load Limit (E_{\lim})	200	% E_{\max}
Zero Balance	$< \pm 2$	% S_n
Input Resistance	400	$\Omega \pm 20$
Output Resistance	350	$\Omega \pm 3$
Insulation Resistance	> 5000	M Ω @ 100V
Recommended Supply Voltage	5-15	V
Maximum Supply Voltage	15	V
Environmental protection according to EN 60529	IP66	-
Cable Length	5	m
Cable Material	PVC	-
Maximum deflection at E_{\max}	0.2 - 0.4	mm
Nominal Shipping Weight	0.9	kg

* Pre-corner adjustment optimised at $\pm 0.05\%$ by output current calibration



Electrical Connections

Via 4 core, 6mm diameter, screened PVC cable.
Screen not connected electrically to load cell.

Construction

Nickel plated alloy steel

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Issue: T85-N.02.17

Our policy is one of continuous product enhancement. We therefore reserve the right to incorporate technical modifications without prior notification.