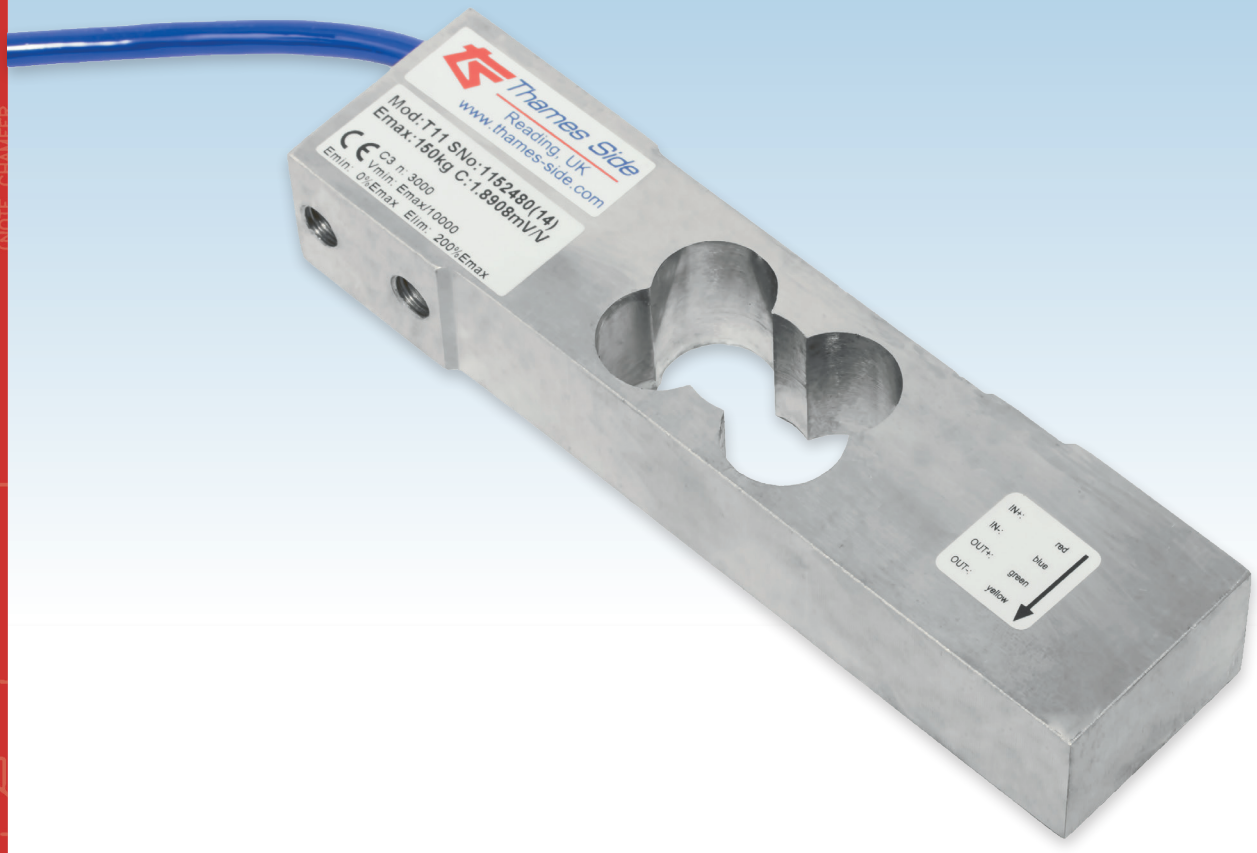
T11

Thames Side

SINGLE POINT LOAD CELL

capacities 15kg - 150kg



This double bending beam single point load cell is manufactured from high quality alloy steel and nickel plated. Its design allows for high accuracy weigh measurement with off-centre loads and it's potted and sealed to IP66.

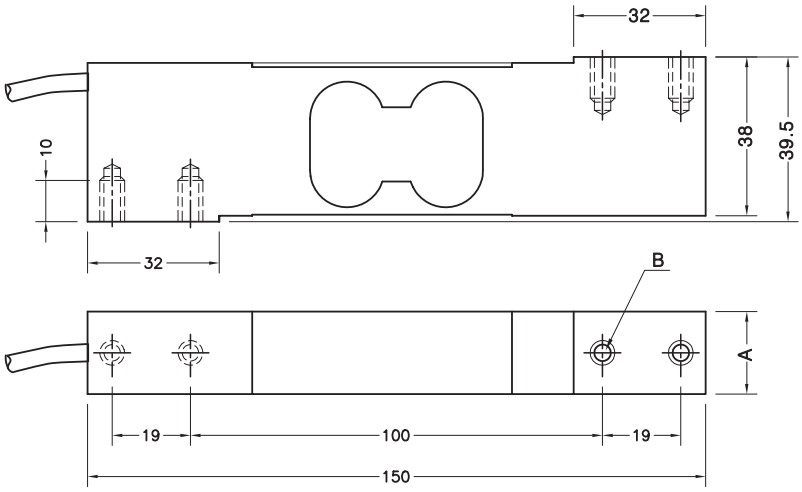
Typical applications include: single point platforms up to 500x500mm in size, small buckets and hoppers supported by a single load cell, small bagging and dosing machines, filling scales and checkweighers.

- Nickel plated alloy steel load sensor
- Potted and silicone sealed to IP66
- 3000 divisions OIML R60 Class C
- 5 year warranty
- 500 x 500mm max. platform size (with load cell placed centrally under platform)
- High durability Polyurethane cable

OIML

T11

technical specification...



T11 Load Cell

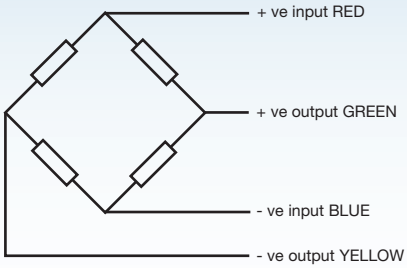
	Load cell specification	Units
Load Cell Capacity (E_{max})	15, 20, 30, 50, 75, 100, 150	kg
Rated Output (S_n)	2	mV/V ± 10%
Accuracy Class	3000 (See Note 1)	n.OIML
Combined Error	< ± 0.017	% S_n
Non-repeatability	< ± 0.01	% S_n
Minimum load cell verification interval (v_{min}) = E_{max} / Y	E_{max} / 10000	kg
Creep (30 minutes)	< ± 0.016	% S_n
Temperature Effect on Zero Balance	< ± 0.002	% S_n / °C
Temperature Effect on Span	< ± 0.0012	% S_n / °C
Compensated Temperature Range	-10 to +40	°C
Operating Temperature Range	-20 to +70	°C
Safe Overload	150	% E_{max} *
Ultimate Overload	200	% E_{max} *
Zero Balance	< ± 2	% S_n
Input Resistance	400	Ω ± 20
Output Resistance	350	Ω ± 3
Insulation Resistance	> 5000	MΩ @ 100V
Recommended Supply Voltage	5-15	V
Maximum Supply Voltage	15	V
Environmental Protection	IP66	
Maximum deflection at E_{max}	0.3-0.5	mm
Cable length	3	m
Cable Material	Polyurethane	
Maximum Platform Size +	500 x 500	mm
Nominal Shipping Weight (15 - 30kg)	1.0	kg
Nominal Shipping Weight (50 - 150kg)	1.2	kg

1. OIML C3 approval is available from 15kg to 75kg (inclusive)
* Only applies to central loads on the load cell. Not for off-centre loads.
\+ The load cell must be placed centrally under the platform

Dimensions

Range (kg)	15 - 30	50 - 150
A	20	25
B	M6	M8

Dimensions in mm



Electrical Connections

Via 4 wire, 5.7mm diameter, screened polyurethane cable.
Screen not connected electrically to load cell.

Construction

High quality nickel plated alloy steel

DISTRIBUTED BY:

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THAMES SIDE SENSORS LTD

Issue: T11.03.19

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