# T95

Thames Side

# FOLDED SHEAR BEAM LOAD CELL FOR HIGH ACCURACY WEIGHING

*capacities 2t - 20t*

The T95 range comprises of a stainless steel load cell complete with tough, painted mounting assembly. Although the assembly is used in compression, the cell is mounted in a pendulum and operated in tension. This ensures that the load point is always maintained through the central axis of the cell, even when the assembly is subjected to considerable movement or misalignment.

The T95 is most suitable for high accuracy applications where movement or vibration is present, eg mixers, catalyst vessels, weighing platforms, axle weighers and vehicle weigh-in-motion (WIM) systems. The T95 load cell is also available with ATEX intrinsically safe certification for all gas and dust zones.

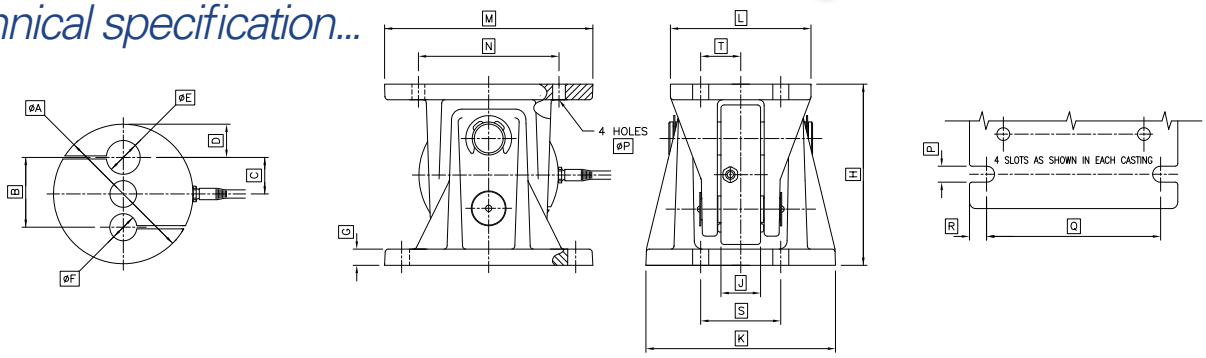
For applications in aggressive environments where stress corrosion or acid attack is an issue, a special parylene coating can be specified as an option. High temperature variants for operation up to 150°C are also available.

- Stainless steel load sensor
- Fully welded construction sealed to IP68/IP69K
- Ease of installation
- Load cell is always in tension
- OIML C3 approved
- Tough and durable paint finish with Stainless Steel option
- 5 year warranty
- Integral lift off prevention
- Ideal in vibrating applications
- Unique damping feature

OIML

# T95

*technical specification...*




## Model T95 ATEX and ICEEx Certification

| Code | Safety Parameters | Application |
|---|---|---|
| II 1 GD<br>EX ia IICT6 Ga<br>Ex ia IIICT70°C Da | Ui = 30 V, Pi = 1.3 W<br>Ci = 2.4nF, Li = 8 µH | Suitable for all dust and gas zones but require safety barriers |
| II 3 G<br>Ex nAT6($T_a$=-20°C to +60°C) | Ui = 30 V, Pi = 1.3 W<br>Ci = 2.4nF, Li = 8 µH | Suitable for Gas zone 2. No safety barriers required. Maximum applied voltage of 42V is allowed |
| II 1 D<br>Ex ta IIICT80°C Da IP6X<br>$T_a$= (-20°C ≤$T_a$ ≤ +60°C) | Um=18 V | Suitable for all dust zones, 20, 21 and 22. No safety barriers required. Excitation must be below 18V |

## T95 Load Cell

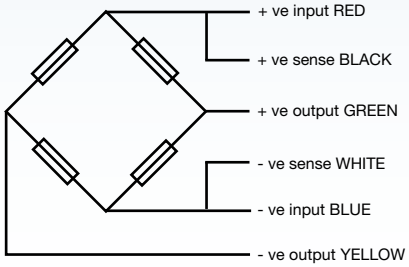
| | Load cell specification | | Units |
|---|---|---|---|
| **Load Cell Capacities** | 2000, 5000, 10000 | 20000 | kg |
| **OIML** | 3000 | - | divisions |
| **Rated Output** | 2 | 2 | mV/V +/-0.1% |
| **Combined Error** | < +/- 0.017 | < +/- 0.05 | %* |
| **Non-repeatability** | < +/- 0.015 | < +/- 0.02 | %* |
| **Temperature Effect on Zero Balance** | < +/- 0.002 | < +/- 0.0025 | %* / °C |
| **Temperature Effect on Span** | < +/- 0.0012 | < +/- 0.0035 | %* / °C |
| **Compensated Temperature Range** | -10 to +40 | -10 to +40 | °C |
| **Operating Temperature Range** | -40 to +80 | -40 to +80 | °C |
| **Safe Overload** | 150 | 150 | %* |
| **Ultimate Overload** | 300 | 300 | %* |
| **Zero Balance** | < +/- 2 | < +/- 2 | %* |
| **Input Resistance** | 380 | 380 | Ω +/- 5 |
| **Output Resistance** | 350 | 350 | Ω +/- 5 |
| **Insulation Resistance** | > 5000 | > 5000 | MΩ @ 100V |
| **Recommended Supply Voltage** | 10 | 10 | V |
| **Maximum Supply Voltage** | 15 | 15 | V |
| **Environmental Protection** | IP68 / IP69K | IP68 / IP69K | |
| **Cable Length** | 10 | 20 | m |
| **Cable Material** | Polyurethane | Polyurethane | |
| **Nominal Shipping Weight load cell** | 4 | 11.5 | kg |
| **Nominal Shipping Weight assembly** | 14 | 38.5 | kg |

*With respect to rated output

## Dimensions

| Range (kg) | 2000 - 10000 | 20000 |
|---|---|---|
| A | 137 | 187 |
| B | 66 | 87 |
| C | 35 | 40.5 |
| D | 32 | 53 |
| E | 32.5 | 48 |
| F | 26 | 36 |
| G | 15 | 22 |
| H | 174 | 245 |
| J | 40 | 57 |
| K | 182 | 252 |
| L | 135 | 186 |
| M | 200 | 260 |
| N | 135 | 185 |
| P | 16 | 20 |
| Q | 170 | 218 |
| R | 15 | 21 |
| S | 70 | 100 |
| T | 35 | 50 |

Dimensions in mm




### Electrical Connections

Via 6-core, 16/0.2mm, 5.7mm outer diameter, screened polyurethane cable.
*Screen not connected electrically to load cell.*

### Construction

Sensor element
High strength stainless steel type 17-4PH

Mounting assembly
Alloy steel, durable painted finish

Shafts
Corrosion resisting hardened stainless steel

### Options

OIML C3 approved, 20t version available in alloy steel

*DISTRIBUTED BY:*


**THAMES SIDE SENSORS LTD**
Unit 10, io Trade Centre, Deacon Way,
Reading, Berkshire RG30 6AZ
**tel:** +44 (0) 118 941 1387
**fax:** +44 (0) 118 941 2004
sales@thames-side.co.uk
**www.thames-side.com**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