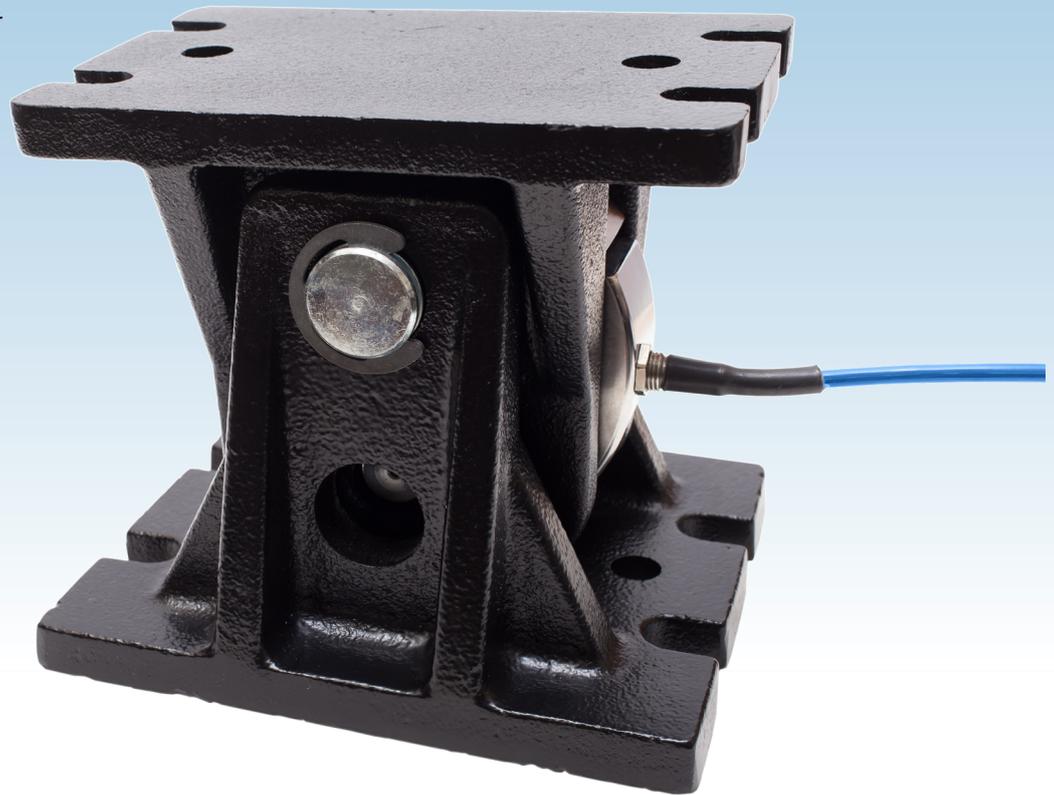


T95

 **Thames Side**

FOLDED SHEAR BEAM WEIGHING ASSEMBLY FOR HIGH ACCURACY APPLICATIONS

capacities 2t - 20t



The T95 weighing assembly comprises a stainless steel high accuracy load cell, complete with a tough mounting accessory in painted alloy steel (optionally stainless steel up to 10t). Although the assembly is used in compression, the cell is mounted in a unique pendulum configuration and loaded in tension. This ensures that the load vector is always maintained through the central axis of the load 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, e.g. mixers, agitators, catalyst vessels, weighing platforms, axle weighers and vehicle weigh-in-motion (WIM) systems. The T95 load cell is also available with ATEX and IECEx approval certification for all gas and dust zones.

For applications in aggressive environments where stress corrosion or acid attack is a concern, a special Parylene coating can be specified as an option. Also available is an optional High Temperature variant, for operation up to 150°C.

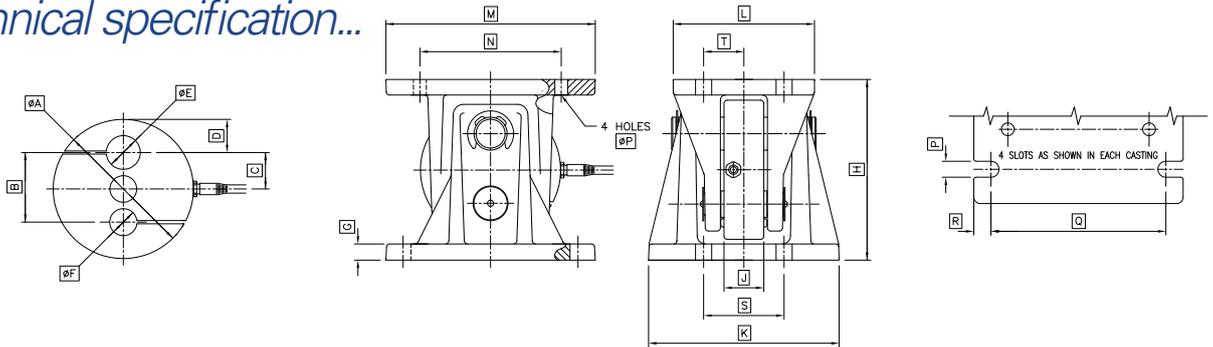
- Stainless steel load sensor
- Fully welded and hermetically sealed construction to IP68/IP69K
- Simple installation
- Load cell is always in tension
- OIML C3 (3000 divisions) approval
- Tough and durable painted mounting accessory, with Stainless Steel option
- 5 year warranty
- Integral lift-off prevention
- Ideal in mixer and vibrating applications
- Unique damping feature



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T95

technical specification...



T95 Load Cell ATEX and IECEx Certification

| Cert. | Code | Safety Parameters | Key Points |
|-------|--|---|---|
| ATEX | II 1 GD Ex ia IIC T6 Ga Ex ia IIIC T70°C Da | U _i =30 V, P _i =1.3 W C _i =2.4 nF, L _i =8 µH | Suitable for all dust and gas zones but requires safety barriers. |
| IECEx | Ex ia IIC T6 Ga Ex ia IIIC T70°C Da | | |
| ATEX | II 3 G Ex nA IIC T6 Gc -20 °C ≤ Ta ≤ +60 °C | U _i =30 V, P _i =1.3 W C _i =2.4 nF, L _i =8 µH | Suitable for Gas zone 2 only. No safety barriers are required. Refer to certificate for further details. |
| ATEX | II 1 D Ex ta IIIC T80°C Da IP6X -20 °C ≤ Ta ≤ +60 °C | U _m =18 V | Suitable for all dust Zones: 20, 21 and 22. No safety barriers are required. Excitation voltage must be below 18V. Safe ambient temperature range is from -20°C to +60°C. |

Dimensions

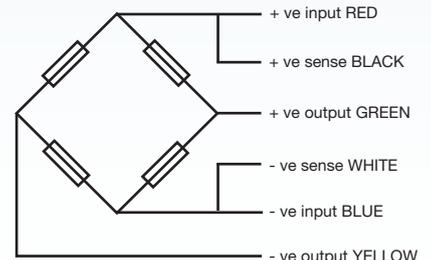
| Range (kg) | 2000 - 1000 | 20000 |
|------------|-------------|-------|
| A | 137 | 187 |
| B | 65.3 | 86 |
| C | 34.3 | 46 |
| D | 34.2 | 47.5 |
| E | 32.6 | 48.1 |
| F | 26.1 | 36.1 |
| G | 15 | 22 |
| H | 174 | 245 |
| J | 40 | 57 |
| K | 182 | 252 |
| L | 135 | 186 |
| M | 200 | 260 |
| N | 135 | 185 |
| P | 16 | 20 |
| Q | 168 | 218 |
| R | 16 | 21 |
| S | 70 | 100 |
| T | 35 | 50 |

T95 Load Cell

| Load Cell Capacities | Load cell specification | | Units |
|-------------------------------------|-------------------------|-------------------|-------------|
| | | 2000, 5000, 10000 | 20000 |
| Accuracy Class | 3000 | - | n.OIML |
| Rated Output | | 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 | | °C |
| Operating Temperature Range | -40 to +80 | | °C |
| Safe Overload | 150 | | %* |
| Ultimate Overload | 300 | | %* |
| Zero Balance | < ± 2 | | %* |
| Input Resistance | 380 | | Ω ± 5 |
| Output Resistance | 350 | | Ω ± 5 |
| Insulation Resistance | > 5000 | | MΩ @ 100V |
| Recommended Supply Voltage | 5 - 15 | | V |
| Maximum Supply Voltage | 15 | | V |
| Environmental Protection | IP68 / IP69K | | |
| Cable Length | 10 | 20 | m |
| Cable Material | Polyurethane | | |
| Nominal Shipping Weight - load cell | 4 | 11.5 | kg |
| Nominal Shipping Weight - accessory | 14 | 38.5 | kg |

*With respect to rated output

Dimensions in mm



Electrical Connections

Via 6-core, 5.7mm outer diameter, screened Polyurethane cable (halogen free).
Screen not connected electrically to load cell.

Construction

- Load cell element:
High strength stainless steel, type 17-4PH
- Mounting accessory - 2 options:
- Alloy steel, durable painted finish (black)
 - Loading shafts: zinc plated alloy steel / corrosion resisting hardened stainless steel, type 17-4PH
 - Screws and circlips: zinc plated alloy steel
 - Stainless steel
 - Loading shafts: both are corrosion resisting hardened stainless steel, type 17-4PH
 - Screws and circlips: stainless 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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Our policy is one of continuous product enhancement. We therefore reserve the right to incorporate technical modifications without prior notification.

