

TF Series - Coupling based Torque Transducer

Product Overview

The TF was the first spacer coupling that we instrumented in the 1980's. The TF label has been retained for specially engineered units based on any proprietary coupling manufacturer's spacer. Most Torques and speeds can be accommodated, and all the TF couplings are rated to 65°C with a 100°C option.

Various signal-conditioning packages are available to suit your requirements. As standard the system is supplied with a bench mounted display for Torque only. (Options for adding speed and power are available.)

System Specifications:

| | | | |
|-------------------------------|--------------------------------|----------------------|--------------------------|
| Accuracy: | +/-0.5% of FS (Bi-directional) | Calibration level: | Specified on certificate |
| Output signal at zero Torque: | 10 kHz | Overload capacity: | 150% FS |
| Nominal output at +FS Torque: | 15 kHz | Operating temp: | +5 to +65°C |
| Nominal output at -FS Torque: | 5kHz | Optional temp range: | -0 to +100°C |
| Non-linearity: | ±0.2% FS | Zero shift: | ±0.01% FS/°C |
| Repeatability: | ±0.05% FS | Span shift: | < ±0.02%FS/°C |
| Hysteresis: | ±0.1% FS | | |

Industrial Measurements

part of Crane Electronics Ltd.

Watling Drive

Sketchley Meadows

Hinckley LE10 3EY

Tel: +44(0) 1332 810 240

sales@indmeas.co.uk

www.indmeas.co.uk

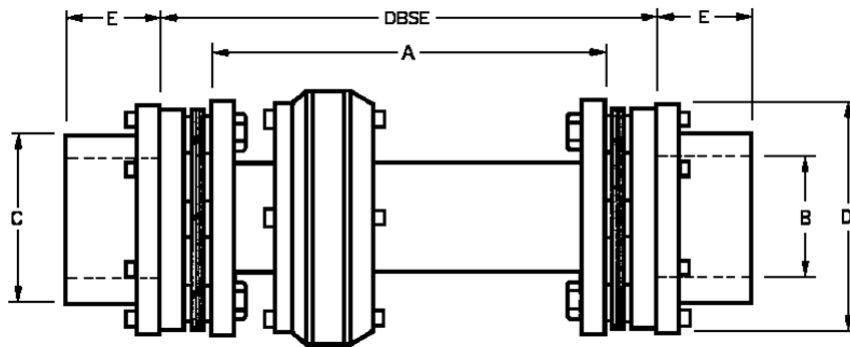


As of 2013 the system is **ATEX approved** and Certified by MET Laboratories to meet **CSA Standard C22.2**.

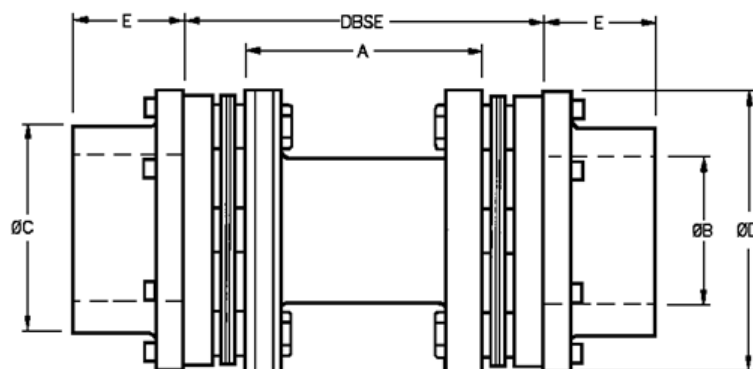
ATEX Certified for Zone 2 (ATEX Category 3) all gas groups T4 IEC61010 certified

CSA listing number:-E113696 Complies with CSA C22.2 No. 213-M1987 Class 1, Division 2, Groups A, B, C, D.

Dimensions



| TFC | Rated Torque (Nm) | Max Speed | | Min DBSE | ØB (Max) | C | D | E |
|------|-------------------|-----------|------------|----------|----------|----|-----|----|
| | | Balanced | Unbalanced | | | | | |
| 0013 | 125 | 25000 | 7000 | 190 | 36 | 54 | 86 | 40 |
| 0027 | 315 | 20000 | 6000 | 215 | 46 | 69 | 105 | 45 |
| 0075 | 715 | 16500 | 5200 | 240 | 65 | 90 | 130 | 55 |

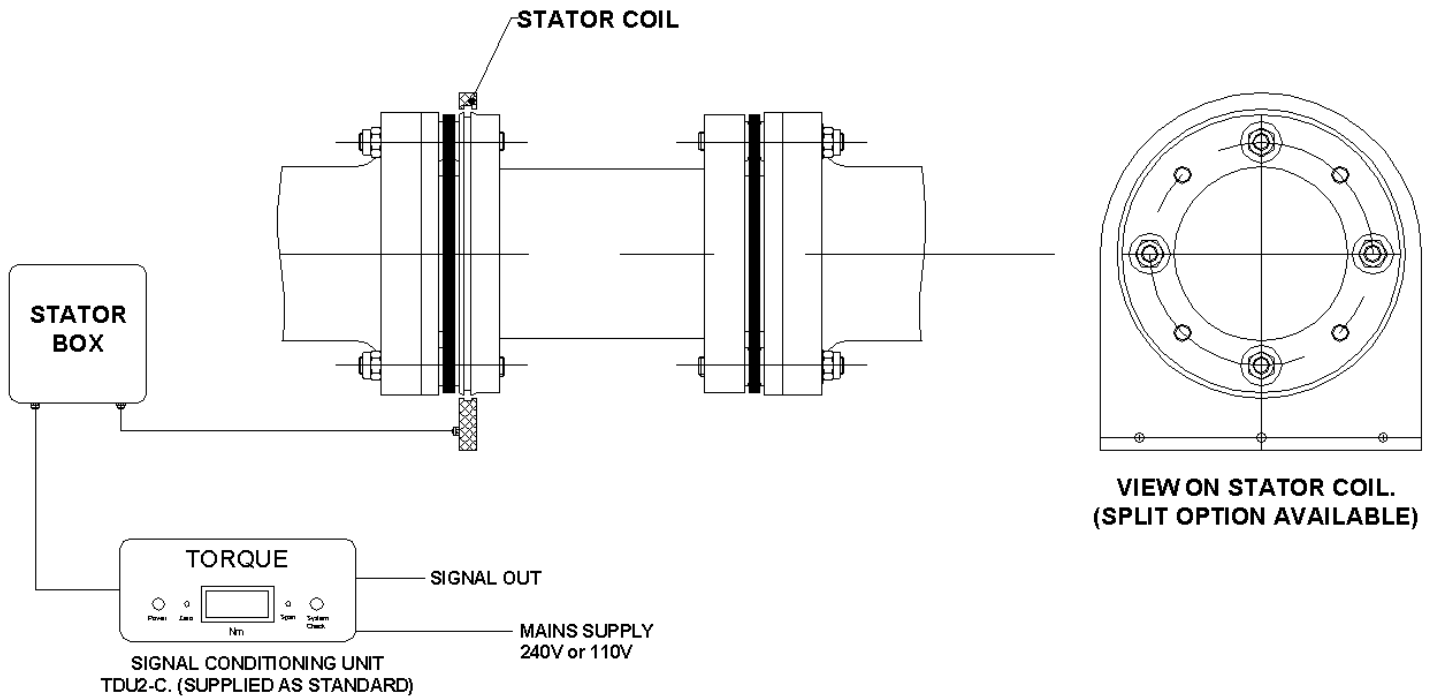


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|------|-------------------|-----------|------------|----------|----------|-----|-----|-----|
| | | Balanced | Unbalanced | | | | | |
| 0135 | 1290 | 14400 | 4800 | 225 | 80 | 112 | 152 | 62 |
| 0230 | 2200 | 12000 | 4700 | 255 | 90 | 131 | 179 | 70 |
| 0300 | 2900 | 15300 | 5700 | 255 | 84 | 119 | 155 | 84 |
| 0500 | 4800 | 12800 | 5000 | 275 | 100 | 143 | 185 | 100 |
| 0750 | 7000 | 11300 | 4600 | 295 | 110 | 161 | 209 | 110 |
| 1050 | 10000 | 10100 | 4200 | 315 | 134 | 187 | 235 | 134 |
| 1500 | 14300 | 9000 | 3900 | 340 | 148 | 208 | 262 | 148 |
| 2000 | 19000 | 8200 | 3700 | 365 | 161 | 225 | 288 | 161 |

Other ratings and customer sizes are available.



System Schematic (Torque only)



Signal Conditioning Unit (Bench Mounted) Output Options:- 4-12-20mA, +/-10Vdc.

Other display option:-

- Bench mounted display for speed, output signal 0-10Vdc
- 19" rack, for Torque, Speed and Power, or Combination.
- Wall mounted cabinet

Providing custom torque solutions. Industrial Measurements.

Founded in 1981, Industrial Measurements have been providing comprehensive Torque measurement solutions and the design & manufacture of standard and bespoke Torque Transducers, for over 35 years.

We pride ourselves on being able to provide a solution no matter what the challenge. As well our standard products such as Inline Rotary Torque Transducers & Static Torque Systems, we are devoted to designing and manufacturing completely bespoke Torque systems to suit our customers needs.

As well as offering one of the largest ranges of Torque Transducers in the world, IML makes special Torque Sensors, Torque Meters and Load Cells. We also provides a fully accredited Torque calibration service, not just for our own products but for other manufacturers Torque products too.

Whilst our head office is based in the UK, we have customers from all over the world, in particular Western Europe and we are always looking to extend our customer base and offer support and technical advice to all current and future customers.

The knowledge and commitment of our dedicated employees has aided in building a quality customer base across the globe and we supply several industries including Marine & Offshore, Steel Plants, Automotive, Aerospace, Power Generation and much more.

Since 2009, Industrial Measurements has been a part of the Crane Group, alongside Crane Electronics Ltd.



For more information about the TF Series or for a quote, call +44 (0) 1332 810 240 or email sales@indmeas.co.uk.

Providing custom torque solutions

Industrial Measurements
part of Crane Electronics Ltd.
Watling Drive
Sketchley Meadows
Hinckley LE10 3EY
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sales@indmeas.co.uk
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