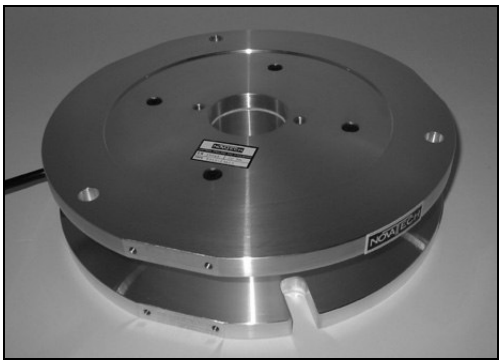
F326

Flange Mounted Motor Torque Transducer

Standard Range 20Nm

- **Standard motor mounting fixings**
- **Universal motor mounting**
- **Static motor installation only**
- **Dust proof construction**
- **Custom ranges**



The F326 fits between a motor and its mounting structure acting as a low profile coupling or adaptor plate. The motor shaft passes through the centre of the F326, the resultant torque reaction on the motor stator is equal and opposite to the shaft torque. Torque is transmitted from the motor stator through the F326 transducer to the earth structure or chassis.

The F326 supports a large mass load but measures a small torque without any moving parts. This makes the F326 suitable for many process applications, examples are;

- Bulk powder handling – mass flow measurement
- Rheology – liquid viscosity measurement
- Mechanical handling – conveyor belt drive torque

F326 transducers can be designed for most motor drive applications where the motor is itself static. We are happy to design variants of this transducer to meet your specific requirements. Please consult our engineering department.

Details of all our loadcell families can be found in the Loadcell Specifier Guide. If you require a copy please contact our sales department or look on our web site at www.novatechloadcells.co.uk.

Ordering Codes:	See the ordering code sheet for more details. Add ranges in the required units.
Most F326 transducers are manufactured to special requirements and are given an F326-Zxxxx number.	

F326 Specification

Parameter	Value	Unit
Non-linearity - Terminal	±0.1	% RT
Hysteresis	±0.4	% RT
Creep - 20 minutes	±0.1	% AT
Repeatability	±0.05	% RT
Rated output - Nominal	2.1	mV/V
Rated output - Rationalised	2	mV/V
Rationalisation tolerance	±0.5	% RT
Zero load output	±4	% RT
Temperature effect on rated output per ºC	±0.005	% AT
Temperature effect on zero load output per ºC	±0.005	% RT
Temperature range - Compensated	-10 to +50	ºC
Temperature range - Safe	-10 to +80	ºC
Excitation voltage - Recommended	10	V
Excitation voltage - Maximum	20	V
Bridge resistance	700	Ω
Insulation resistance - Minimum at 50Vdc	500	MΩ
Structural stiffness	Range dependant	N/m
Sealing	Dust proof	
Weight - Nominal (excluding cable)	8.5	kg

The standard range is manufactured in aluminium.

Notes

1. AL = Applied load.
2. RL = Rated load.
3. Temperature coefficients apply over the compensated range.
4. The motor mass can create an initial zero change and is replicated during our calibration.

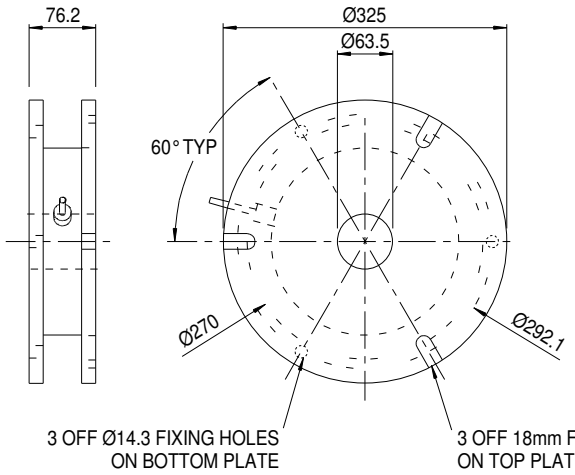
Connections

The loadcell is fitted with 2 metres of PVC insulated 4 core screened cable type 16-2-4C.

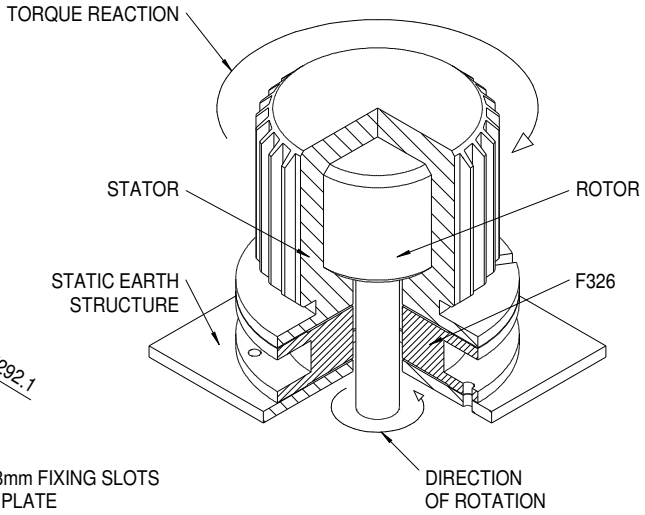
Excitation + = Red	Signal + = Yellow	Screen = Orange
Excitation - = Blue	Signal - = Green	

The screen is not connected to the loadcell body.

TYPICAL CONSTRUCTION



TYPICAL INSTALLATION



Novatech reserves the right to vary the foregoing details without prior notice 01/2008

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