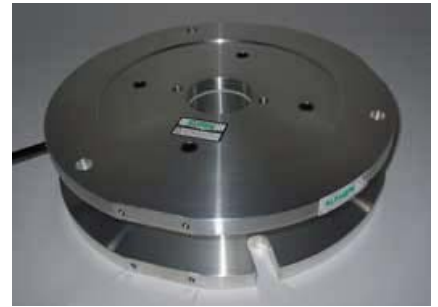


ATF326

Flange Mounted Motor Torque Transducer

- Measurement range 0 ... 20 Nm
- Non-linearity 0.1 % RL
- Output signal 2.1 mV/V or rationalised 2.0 mV/V ± 0.5 %
- Supply voltage 10 VDC, max. 20 VDC



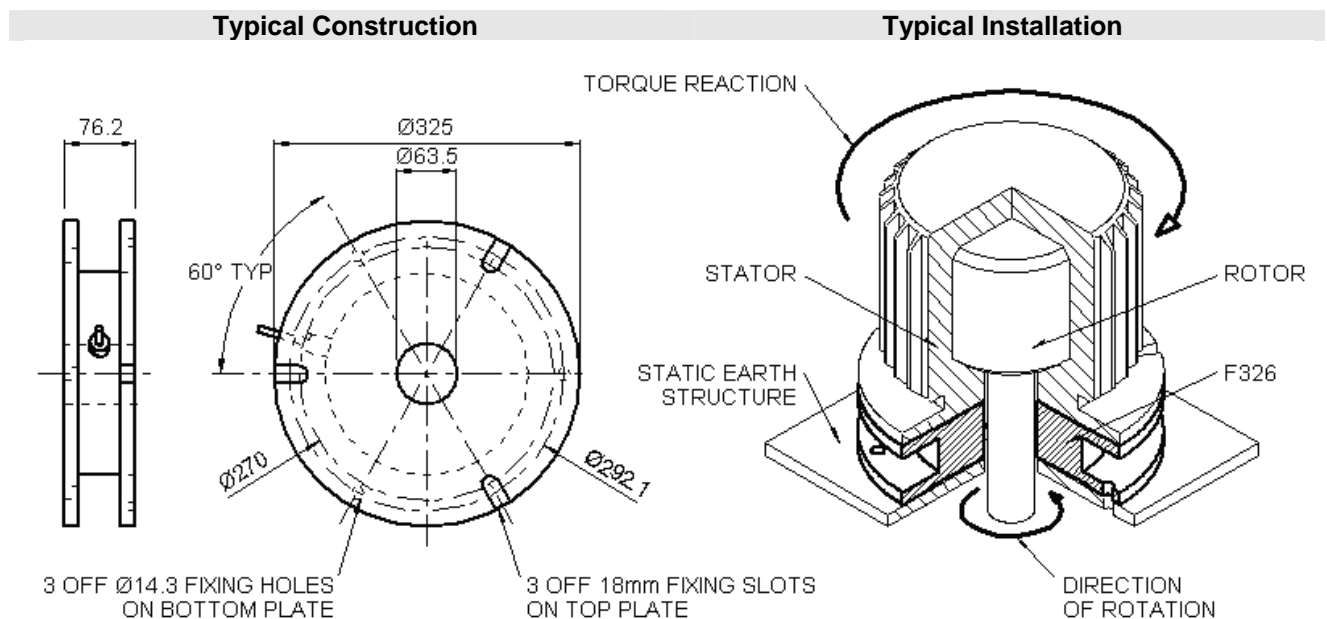
The ATF326 fits between a motor and its mounting structure acting as a low profile coupling or adaptor plate. The motor shaft passes through the centre of the ATF326, the resultant torque reaction on the motor stator is equal and opposite to the shaft torque. Torque is transmitted from the motor stator through the ATF326 transducer to the earth structure or chassis.

This makes the ATF326 suitable for many process applications, examples are:

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

ATF326 transducers can be designed for most motor drive applications where the motor is itself static.

■ Dimensions



Dimensions in „mm“, approx. values

These drawings are for information only and not intended for construction purpose. Please contact us for detailed drawings.

■ Specifications

| | |
|---|------------------|
| Rated torque: | 20 Nm |
| Non-linearity, terminal: | ±0.1 % RT |
| Hysteresis: | ±0.4 % RT |
| Creep, 20 min: | ±0.1 % AT |
| Repeatability: | ±0.05 % RT |
| Rated output, nominal: | 2.1 mV/V |
| Rated output, rationalised: | 2 mV/V ±0.5 % RT |
| Zero load output: | ±4 % RT |
| Temperature effect on rated output: | ±0.005 % AT/K |
| Temperature effect on zero load output: | ±0.005 % RT/K |
| Compensated temperature range: | -10 ... +50 °C |
| Operating temperature range: | -10 ... +80 °C |
| Supply voltage, recommended: | 10 V |
| Supply voltage, max.: | 20 V |
| Bridge resistance: | 700 Ohm |
| Insulation resistance, minimum at 50 VDC: | 500 MOhm |
| Structural stiffness: | Range dependant |
| Environmental sealing: | Dust proof |
| Weight (excl. cable): | approx. 8.5 kg |
| Material: | Aluminium |

Notes:

1. RT = rated torque
2. AT = applied torque
3. Temperature coefficients apply over the compensated range.
4. The motor mass can create an initial zero change and is replicated during our calibration.

■ Electrical Connections:

The transducer is fitted with 2 m of PVC insulated 4 core screened cable type 16-2-4C. The screen is not connected to the transducer body.

Wiring:

| | |
|------------------|--------|
| + supply voltage | red |
| - supply voltage | blue |
| + output signal | yellow |
| - output signal | green |
| screen | orange |

Our policy is to improve specification of our products continuously, so technical and production details can be changed without any notice.