

Reaction Torque Sensors

Motor Flange - Gear Mount [01294]

Sensor Developments Inc. announces a new addition to its custom sensor product family. Our 01294 motor flange torque sensor is designed to measure the reaction torque on the motor housing, without the need to integrate an in-line rotating torque sensor. This eliminates the potential of electrical noise due to bearings or slip-ring brushes, and allows for long term installation and monitoring. This custom sensor can be adapted to a wide range of applications and motor face styles. Torque capacities can be designed to meet your requirements and typically range from 100in-lbs to 10,000in-lbs (11N-m to 1100Nm).



SPECIFICATIONS

Capacity500 in.lb.
Overload capacity.....150% of F.S.
Output at F.S 2.0 mV/V nominal
Non-linearity..... 0.10% of F.S.
Hysteresis.....0.10% of F.S.
Zero balance.....1.00% of F.S.
Compensated temperature70 to 170°F
Useable temperature-65 to +250°F
Excitation voltage, maximum.....20 Vdc

Motor Flange - Motor Mount [01302]

This unique style torque sensor is designed to measure the reaction forces exerted on the motor housing. SDI's model 01302 is directly mounted to the motor's flange face as the main interface between it and the torque load. It can be used with variable displacement motors, fluid meters, linear actuators, and other drive motors to measure the output torque, in real-time and at the source. The use of this sensor greatly reduces the potential of electrical noise due to bearings or slip-ring brushes, and allows for more extreme environmental exposures, such as at sea or at remote field sites.



This sensor design can be adapted for a wide range of applications and motor face couplings including SAE type flanges.

SPECIFICATIONS

Capacity.....1200 in.lb.
Overload capacity.....150% of F.S.
Output at F.S..... 2.0 mV/V nominal
Non-linearity..... 0.10% of F.S.
Hysteresis.....0.10% of F.S.
Zero balance.....1.00% of F.S.
Compensated temperature.....70 to 170°F
Useable temperature.....-65 to +250°F
Excitation voltage, maximum.....20 Vdc
