

Sensor Model: 160M50S3
Body Load Rating: 650L4100

I. Overload Capabilities:

All overload values are for no damage, no re-calibration required.

- Single Axis Loading:

Axis	Maximum Load (lb, in-lb)
F _x	3,300 lb
F _y	3,300 lb
F _z	14,300 lb
M _x	21,900 in-lb
M _y	18,900 in-lb
M _z	15,300 in-lb

- Combined Loading:
Both equations must be satisfied at all times.

$$(1) \quad F_x/3300 \quad +F_y/3300 \quad +F_z/14300 \quad +M_x/21900 \quad +M_y/18900 \quad +M_z/15300 \leq 1$$

$$(2) \quad F_x/5000 \quad +F_y/4100 \quad +F_z/14300 \quad +M_y/19000 \quad +M_z/15300 \leq 1$$

II. Approximate Stiffnesses (+/-20%):

Axis	Stiffness
F _x	880e3 lb/in
F _y	880e3 lb/in
F _z	7.18e6 lb/in
M _x	25.2e6 in-lb/rad
M _y	25.2e6 in-lb/rad
M _z	8.44e6 in-lb/rad

III. Notes:

- When subjected to the above static loads, this sensor will not be damaged. However due to possible limitations on the ability of the mounting bolts to maintain frictional lock-up between the sensor and the surfaces to which it is mounted, sensor readings may exhibit a temporary shift in zero point and/or an increase in hysteresis.
- In determining safe dynamic or shock loads the total energy imparted into the sensor must be considered. Traveling stress waves may potentially combine to produce a maximum stress above the static maximum.