

Sensor Model: 160M50A3
Body Load Rating: 325L2000

I. Overload Capabilities:

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

- Single Axis Loading:

Axis	Maximum Load
F _x	1600 lb
F _y	1600 lb
F _z	6900 lb
M _x	10500 in-lb
M _y	9100 in-lb
M _z	7450 in-lb

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

$$(1) \quad F_x/1600 \quad +F_y/1600 \quad +F_z/6900 \quad +M_x/10500 \quad +M_y/18200 \quad +M_z/7450 \quad \leq 1$$

$$(2) \quad F_x/2150 \quad +F_y/2250 \quad +F_z/6900 \quad \quad \quad +M_y/9100 \quad +M_z/7450 \quad \leq 1$$

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

Axis	Stiffness
F _x	450e3 lb/in
F _y	450e3 lb/in
F _z	3.36e6 lb/in
M _x	11.7e6 in-lb/rad
M _y	11.7e6 in-lb/rad
M _z	3.92e6 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.