

Sensor Model: 75E20A4
Body Load Rating: 400L3000

I. Overload Capabilities:

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

- Single Axis Loading:

Axis	Max. Safe Load (lb, in-lb)
F _x	2,100 lb
F _y	2,100 lb
F _z	7,300 lb
M _x	11,700 in-lb
M _y	11,700 in-lb
M _z	9,400 in-lb

- Combined Loading:

Both equations must be satisfied at all times.

$$F_x/2100 + F_y/2450 + F_z/7300 + M_x/11700 + M_z/9400 \leq 1$$

$$F_x/2450 + F_y/2100 + F_z/7300 + M_y/11700 + M_z/9400 \leq 1$$

II. Approximate Stiffnesses:

Axis	Stiffness
F _{x,y}	0.422e6 lb/in
F _z	3.56 e6 lb/in
M _{x,y}	18.3 e6 in-lb/rad
M _z	6.14e6 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.