

Sensor Model: 75E20S
Body Load Rating: 1300L9750

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	7,600 lb
F_y	7,600 lb
F_z	24,100 lb
M_x	39,500 in-lb
M_y	39,500 in-lb
M_z	32,300 in-lb

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

$$F_x/7850 + F_y/7600 + F_z/24100 + M_x/39500 + M_z/32300 \leq 1$$

$$F_x/7600 + F_y/7850 + F_z/24100 + M_y/39500 + M_z/32300 \leq 1$$

II. Approximate Stiffnesses:

Axis	Stiffness
$F_{x,y}$	1.60e6 lb/in
F_z	12.0e6 lb/in
$M_{x,y}$	64.4e6 in-lb/rad
M_z	21.6e6 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.