

Sensor Model: 50M31A3
Body Load Rating: 25L50

Overload Capabilities:

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

- Single Axis Loading:

Axis	Maximum Load (lb, in-lb)	Maximum Load (in terms of Full Scale)
F _x	115 lb	4.6* FS
F _y	105 lb	4.2*
F _z	430 lb	8.6*
M _x	180 in-lb	3.6*
M _y	205 in-lb	4.1*
M _z	140 in-lb	2.8*

- Combined Loading:

Both equations must be satisfied at all times.

$$F_x/130 + F_y/180 + F_z/430 + M_x/180 + M_z/140 \leq 1$$

$$F_x/115 + F_y/105 + F_z/430 + M_x/360 + M_y/205 + M_z/140 \leq 1$$

Approximate Stiffnesses (+/-20%):

Axis	Stiffness
F _x	0.029e6 lb/in
F _y	0.029e6 lb/in
F _z	0.29e6 lb/in
M _x	0.10e6 in-lb/rad
M _y	0.10e6 in-lb/rad
M _z	0.025e6 in-lb/rad