

Sensor Model: 90M31A3
Body Load Rating: 50L180

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	280 lb	5.6* FS
F _y	270 lb	5.4*
F _z	1130 lb	11.3*
M _x	850 in-lb	4.7*
M _y	990 in-lb	5.5*
M _z	720 in-lb	4.0*

- Combined Loading:

Both equations must be satisfied at all times.

$$F_x/340 + F_y/410 + F_z/1130 + M_x/850 + M_z/720 \leq 1$$

$$F_x/280 + F_y/270 + F_z/1130 + M_x/1710 + M_y/990 + M_z/720 \leq 1$$

Approximate Stiffnesses (+/-20%):

Axis	Stiffness
F _x	0.055e6 lb/in
F _y	0.055e6 lb/in
F _z	0.52e6 lb/in
M _x	0.59e6 in-lb/rad
M _y	0.59e6 in-lb/rad
M _z	0.17e6 in-lb/rad