

Sensor Model: 90M40A3
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	830 in-lb	4.6*
M _y	950 in-lb	5.3*
M _z	700 in-lb	3.9*

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

$$\begin{array}{r}
 F_x/340 \quad +F_y/410 \quad +F_z/1130 \quad +M_x/830 \quad +M_z/700 \leq 1 \\
 F_x/280 \quad +F_y/270 \quad +F_z/1130 \quad +M_x/1650 \quad +M_y/950 \quad +M_z/700 \leq 1
 \end{array}$$

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	0.56e6 in-lb/rad
M _y	0.56e6 in-lb/rad
M _z	0.16e6 in-lb/rad