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## 65E20A-I100 500L3250 sensor for use with external electronics

The 65E20A-I100 sensor has no electronic components within the sensor body. As a result it can withstand environmental conditions, such as high temperatures or radiation beyond those possible for sensors with internal electronic components.

The sensor is unusually stiff relative to the load rating; this enables improved accuracy of position over changing loads. The sensor can safely withstand 115% of the rated load applied to all axes simultaneously. If a single axis is loaded with no loads applied to other axes the safe load of the loaded axis is much greater.

The load ratings, maximum safe single axis loads and stiffness are specified in the chart below. The 65E20A sensor is available in versions with higher or lower load ratings and with other bolt patterns.

Axis	Load Rating	Maximum Safe Load	Stiffness
Fx	500 lb.	2500 lb.	0.597e6 lb./in.
Fy	500 lb.	2500 lb.	0.597e6 lb./in.
Fz	1000 lb.	9000 lb.	4.48e6 lb./in
Mx	3250 in-lb.	12000 in-lb.	17.5e6 in-lb./rad
My	3250 in-lb.	12000 in-lb.	17.5e6 in-lb./rad
Mz	3250 in-lb.	10000 in-lb.	5.88e6 in-lb./rad

When used with a JR3 electronic system with analog output, sensor resolution is 1 part in 16,000 of the rated loads or better. Useable resolution may be limited by the A/D system used to digitize the data.

Refer to JR3 drawing No. 4830 for the mechanical details of the sensor.