



Rotary Cam Limit Switch: Shaft Side Load Specifications

Electro Cam Rotary Cam Limit Switches are built for rugged environments with heavy duty steel ball bearings. Below are guidelines for shaft side load to ensure maximum life of the bearings.

Recommended Maximum Side Load: 100 lbs. up to 1800 RPM / 200 lbs. up to 500 RPM

Bearing Life

Bearing life is dependent on side load and speed. It is calculated using the L10 life Model with the load centered at the mid-point of the shaft extension. Below are examples of simple straight radial loads:

- Loads up to 100 pounds at speeds up to 1800 RPM Seven years + (non-stop) bearing life on all units.
- Loads up to 75 pounds at speeds up to 1000 RPM Ten years (non-stop) bearing life on all units.

Note: In all the above applications, non-stop is based on 8,766 hours per year, or 24 hours per day for 365.5 days per year.

Contact the Factory: For applications requiring the following conditions:

- Thrust components in excess of 100 pounds
- Combined loads of 50 pounds thrust and 100 pounds radial at speeds over 200 RPM

Exceeding the Ratings

If the above ratings are exceeded, it could result in:

- Deflection of the enclosure
- Axial displacement or breakage of the shaft
- Significant shortening of the life expectancy of the ball bearings

Pertains to all Cam Switch Models including: EC-3004, EC-3008, EC-3012, EC-3404, EC-3408, EC-2004, EC-2012, EC-2404, EC-2408

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