

Patent pending

The SKF actuator lifetime monitoring system

continuously calculating actuator status





SKF

SKF actuator monitoring system improves reliability and safety

Features / benefits

- Integrated LED continuously indicates actuator status.
- On-board buzzer warns that the actuator has reached its defined service life.
- Memory device mounted in each actuator records usage in real-time.
- Simple download interface collects usage data, enabling the service provider to keep accurate records and propose a proactive maintenance plan.
- Fits within the standard SKF actuator envelope making it interchangeable with existing designs.
- Complies with common EMC requirements.

Improve actuator reliability

SKF actuators are used in many pieces of equipment to provide powerful, efficient, and reliable movement. However, these products have a finite life and are rated for specific operating conditions. To attain maximum reliability and availability it is essential that these actuators are used in accordance with those specifications and not kept in service past their intended lifetime. This is particularly important in medical and health care applications where reliability and safety are so closely tied together.

To help plan maintenance activities, SKF actuators can be supplied with a system that continuously monitors remaining actuator service life and operating conditions.

This on-board system uses a simple LED colour code to indicate remaining service life based on specific calculations. When the LED is green, it indicates that the actuator has more than 10 % service life remaining. When the actuator reaches the point when only 10 % service life remains, the LED turns orange. Once the actuator reaches its calculated service life, the LED turns red and a buzzer sounds, to alert the operator that replacement is necessary.

Take the guess-work out of the monitoring process

A more sophisticated version of the system connects to a PC/Laptop or a Pocket PC (PDA), to capture a variety of data for further analysis. With this information technicians can evaluate and predict maintenance/repair requirements and check that the actuator is being used within its intended operating range.



LED colour indication

Green when new.
Orange when 90 % of defined service life is reached.
Red when defined service life is reached.

No retrofits necessary

The SKF actuator monitoring system is available for most standard SKF actuators. Customers currently using SKF actuators can upgrade without any design changes or retrofits, because the monitoring system fits within the standard envelope, making them dimensionally interchangeable with previous designs. Now available in most standard SKF actuator ranges.



Most handheld PC's, with windows mobile operating system, can be used.

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