

Kollmorgen advances linear motor safety and performance with SafeMotion™ Monitor firmware upgrade

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RADFORD, VA., 01/27/26— Kollmorgen Corporation, a global leader in motion control systems, released the next update for the SafeMotion™ Monitor (SMM) firmware: SMM 3.0. This upgrade expands functional safety support for linear motors and linear axes, helping machine builders implement functional safety in applications ranging from semiconductor manufacturing to battery production and industrial automation that require safety.

Integrated into [AKD2G servo drives](#) and the [Kollmorgen 2G Motion System](#), SMM 3.0 continues to work with all motors that feature any HIPERFACE DSL® rotary-safe feedback system. It also allows the AKD2G drive to now support EnDat 2.2 safe feedback systems to better serve the growing demand for high-performance safety solutions in precision motion control.

Performance Meets Safety

The EnDat 2.2 safe protocol, now supported by ADK2G drives and 2G Motion System, delivers dual independent positioning for robust error detection, high-speed serial data transmission for fast cycle times, integrated diagnostics with

comprehensive monitoring, and flexible encoder support for incremental and absolute feedback drives.

“Linear motors deliver unmatched performance, but implementing functional safety can be challenging,” says Chris Cooper, Product Management Senior Director at Kollmorgen. “The newest update for the SafeMotion™ Monitor (SMM) firmware solves this by bringing EnDat 2.2 safe feedback support to our platform, giving machine builders a complete safety solution that doesn’t sacrifice the speed and precision of linear motors.”

Kollmorgen’s AKM2G and AKMA servo motors also include an EnDat 2.2 safe feedback option, offering even higher performance and accuracy than HIPERFACE DSL for axes where functional safety is required. When combined, machine builders get a complete, integrated motion solution for safety-related applications.

SIL 3 Capability

SMM 3.0 enables complete motion systems to achieve Safety Integrity Level 3 (SIL 3) certification. While the AKD2G drive has maintained SIL 3 certification since launch, the addition of EnDat 2.2 safe feedback support now provides a complete, matched solution capable of meeting this rigorous standard. This is especially important where operators face frequent high-risk scenarios, such as stage lifting systems and heavy material handling equipment. Furthermore, the SIL 3 capability helps future-proof systems so they can scale as safety requirements evolve.

To learn more about the updated safety option and all of our functional safety solutions, visit <https://www.kollmorgen.com/en-us/solutions/industry/safety>.

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About Kollmorgen

Kollmorgen, a Regal Rexnord™ brand, has more than 100 years of motion experience, proven in the industry's highest-performing, most reliable motors, drives, AGV control solutions and automation control platforms. We deliver breakthrough solutions that combine exceptional performance, reliability and ease of use, giving machine builders an irrefutable marketplace advantage.

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