

PRODUCT NOTICE

Effective October 12, 2021¹, Kollmorgen AKM2G motors with HIPERFACE DSL® capacitive encoders (standard “GU” option, EEM37-2KF0A017A) are approved for use with functionally safe drive systems, which fully comply with standard IEC 61800-5-2 of the Machinery Directive 2006/42/EC. This includes both brake (“2”) and non-brake (“N”) configurations.

This approval is based on a Kollmorgen self-assessment of the motor production process, as described below:

- Kollmorgen maintains a Functional Safety (FS) Management system for motors, according to the applicable requirements listed in standard IEC 61508-1/-2/-3.
- Kollmorgen guarantees: (1) functional safety encoder is installed and tested according to original manufacturer’s instructions, (2) Brake and FS-encoder traceability is maintained from supplier to customer, and (3) employees involved in FS processes are trained annually.
- An internal audit and Management review is also performed annually to ensure sustained adherence to documented procedures.
- Kollmorgen change control of FS-related parts or processes includes mandatory Functional Safety Management review and approval.

AKM2G motors subject to this approval **cannot** provide a safe state as a standalone product and **must** rely on the certified drive system to create a safe state based on feedback supplied by the motor.

Note: Sub-systems utilizing Kollmorgen AKM2G and Kollmorgen AKD2G drive are TÜV-certified, according to standard IEC 61800-5-2.

When used as part of a non-AKD2G drive system, the following attributes of the AKM2G motor must be recognized:

1. AKM2G-xxx-xxxxGUxx – Safe Feedback HIPERFACE DSL® Option
 - The HIPERFACE DSL® capacitive encoder (EEM37-2KF0A017A) from SICK is a certified safe motor feedback device.
 - The design and assembly of the AKM2G motor are in accordance with the installation instructions from SICK for this device and meet the fault exclusion requirements in IEC 61800-5-2.
 - The motor feedback system is capable of up to safety level SIL2 (IEC 62061) when installed as part of a drive system certified according to IEC 61800-5-2.
2. AKM2G-xxx-xxx2xxxx –Spring-Applied Brake Option (if applicable)
 - Spring-applied brakes are not certified safe components but rather “well-trying components” according to ISO 13849-1, Cat. 2.
 - This type of brake is considered “fail-safe” because the deenergized state is also the safe state; however, operation of the brake must still be controlled by the drive in a functional safe system and the safety level is determined by the architecture of the drive system.

Please direct additional comments and technical questions to Kollmorgen Engineering.