

With I/Os and drive interface

The CMGA from Festo (Germany) is a safety system with the option of integrated drive monitoring for one axis. It monitors safety switches or speed and position transducers and can be extended with a CANopen module.

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(Photo: Festo)

SYSTEMS EQUIPPED WITH THE SAFET SYSTEM CMGA meet the requirements of the Machinery Directive and the Performance Level (PL) to EN ISO 13849-1. The basic design of the device has 14 safe inputs and three switch-off channels, which can be extended to 65 safe I/Os. Preconfigured software modules are available for processing safety-relevant signals.

Serial network modules for CANopen and Devicenet are available for communication with the controller. The CMGA-E1-CO extension module enables CANopen coupling. It offers a maximum transmission speed of 1 Mbit/s, a network connection via 9-pin D-sub, and IP20 protection class. It comes with a top-hat rail for mounting, conforms to RoHS, and measures 22,5 mm x 115 mm x 100 mm.

There are modules with integrated encoder interface for safe speed and position sensing available. The safety system, which is certified by TÜV Rheinland, ensures compliance with requirements up to Cat. 4, PLe and SIL-3. The system is configured using the "Festo Editor for Safety" software tool. It not only includes the preconfigured safety modules such as emergency stop or guard door, but also the functions for safe drive technology standardized to EN 61800-5-2 such as SS1, SS2, SOS, SLS, SLT, SLP or SDI.