



All-rounders for the safety door

Door locking systems **MGB2 Classic** and **MGB2 Modular**

EUCHNER

More than safety.

Wide range of functions

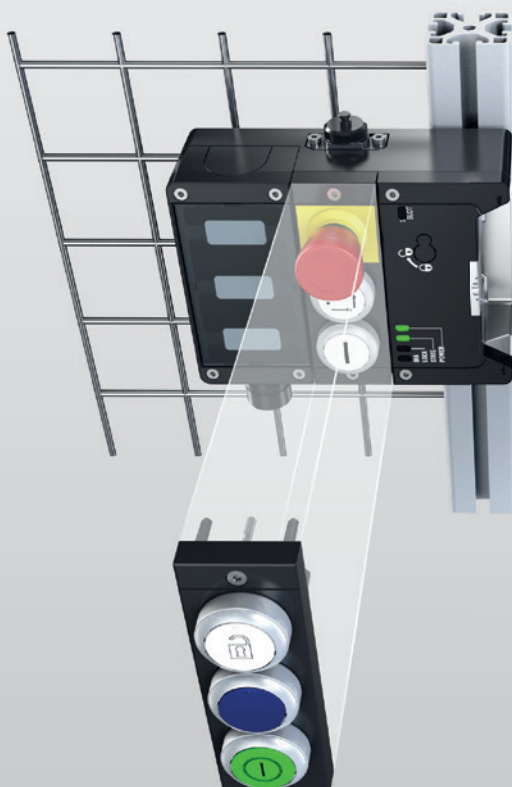
Submodules with controls and indicators

The MGB2 system **couldn't be more versatile**. As a modular system, it can be equipped with various functions as needed. This is possible thanks to the individual submodules, which feature diverse controls and indicators ranging from emergency stop buttons, key-operated rotary switches and selector switches to the CKS2 safe key system. You're sure to find everything you need to meet all your door locking system's requirements.

The submodules for installation in the locking module or expansion module slots can be configured **in any combination**. A single submodule can hold **up to three controls or indicators** or can be used to connect additional safety switches. You can replace submodules quickly or add more as needed. We would be glad to create a submodule tailored to your specific requirements.

Benefits for you

- ▶ Choose from more than 100 MSM submodules, each with up to three controls and indicators or safety switch inputs
- ▶ Combine functions in numerous constellations
- ▶ Enjoy ease of maintenance with plug-and-play functionality – simply remove and reinsert the MSM submodules without restarting the MGB2 system
- ▶ Install rotated by 180° as necessary
- ▶ Customize your pushbuttons and indicators using the colored lenses and covers with symbols provided



The **MGB2** system is readily adaptable to meet **future requirements** as well, making it a **safe investment** for users.

MGB2 *Classic*

The proven option

Door locking system for parallel wiring

Do you want to secure your safety doors or fences against dangerous machine movements? And maybe add up to three functions?

Then the MGB2 *Classic* is exactly what you're looking for. This compact door locking system for parallel wiring is a **safety switch, bolt and control panel** in one. That's not all: its modular design lets you customize the control panel **to suit your needs**. It can accommodate a submodule with up to three control elements you can pick from the wide range of submodules. This results in a **highly functional door locking system** that offers the maximum safety level, category 4/PL e, and covers the most important requirements for the safety door.

You're sure to find the right product for your application in our **extensive range of accessories** from enabling switches to escape or auxiliary releases. And if all this weren't enough, you can choose from various connection variants. The MGB2 *Classic* can be connected in series with up to ten devices.

MGB2 *Classic* benefits

- ▶ For parallel wiring
- ▶ Maximum flexibility due to modular design
- ▶ Robust industrial housing
- ▶ Customization by retrofitting accessories
- ▶ Category 4/PL e for all safety functions according to EN ISO 13849-1



MGB2 Modular

All in one

Compact door locking system with bus connection

Do you need flexible safety door protection for your networked installation? The MGB2 *Modular* is your key for opening up **countless applications**. This highly functional door locking system with guard locking stands for maximum safety according to category 4/PL e. Since it's modular, you can customize the system using just a few components to create **many different variants, functions and networking options** with only minimal wiring.

The MGB2 *Modular* consists of a handle module, an MGB2 locking module, the installed submodules with control and indicating functions, plus a bus module available for **connecting to all common fieldbuses**. The locking module features slots for two submodules, which can accommodate as many as six controls and indicators. As a smart device, the MGB2 *Modular* provides a **wealth of diagnostic data** to the control system. Its integrated web server gives users a rapid, detailed overview of the status of the device whenever required. **Simple parameter assignment** speeds up system implementation.



Many networking options – the MBM bus module

- ▶ PROFINET/PROFIsafe
- ▶ Push-Pull
- ▶ 7/8"
- ▶ M12 L-coded



or

- ▶ EtherCAT/FSoE
- ▶ 7/8"
- ▶ M8 P-coded



Safety over
EtherCAT



Versatile use – locking and handle module

- ▶ Closed-circuit current principle, open-circuit current principle, without guard locking
- ▶ High coding level, low coding level
- ▶ Knob or handle lockable from the inside
- ▶ Escape release, auxiliary release
- ▶ Lockout mechanism



Even more options

Thanks to expansion modules

Do you need even more functions? Adding more controls and indicators to the MGB2 system is child's play with the MCM expansion modules.

These expansion modules include compact, **two-slot versions with space for up to six** or larger, **four-slot versions that can accommodate up to twelve** more controls and indicators or inputs for safety switches.

You can operate the expansion module **directly or use it remotely as a control terminal on a bus module**. A module connector for additional expansion modules or a plug for a stack light with up to four lighting elements can be installed on top of the MCM.



MCM expansion modules



MGB2 Modular benefits

- ▶ Ideal for networked installations with connection for all commonly used fieldbus systems
- ▶ Maximum leeway in installation design – the modular structure couldn't be more versatile
- ▶ Just a few components enable a multitude of variants
- ▶ Scalable as needed and easy to expand using submodules and expansion modules
- ▶ Simple protection for multiple safety doors
- ▶ Remote mounting of bus module and expansion module
- ▶ Industry 4.0 ready: provides comprehensive diagnostic and communication data
- ▶ Minimal wiring effort
- ▶ Simple parameter assignment
- ▶ Category 4/PL e for all safety functions according to EN ISO 13849-1

Variable, easy-to-use function box

With bus connection

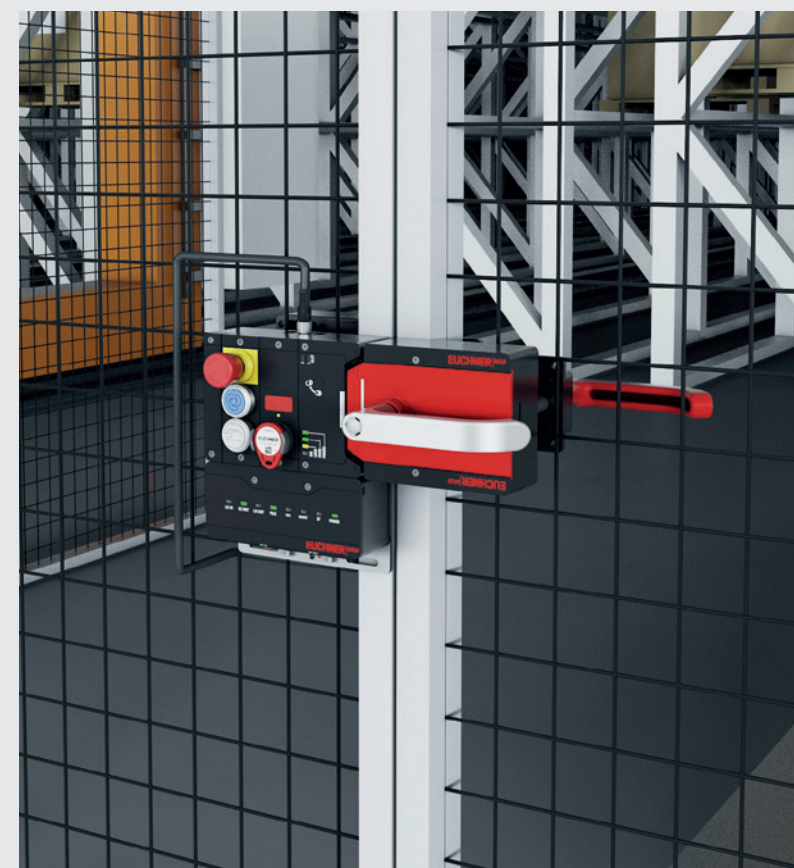
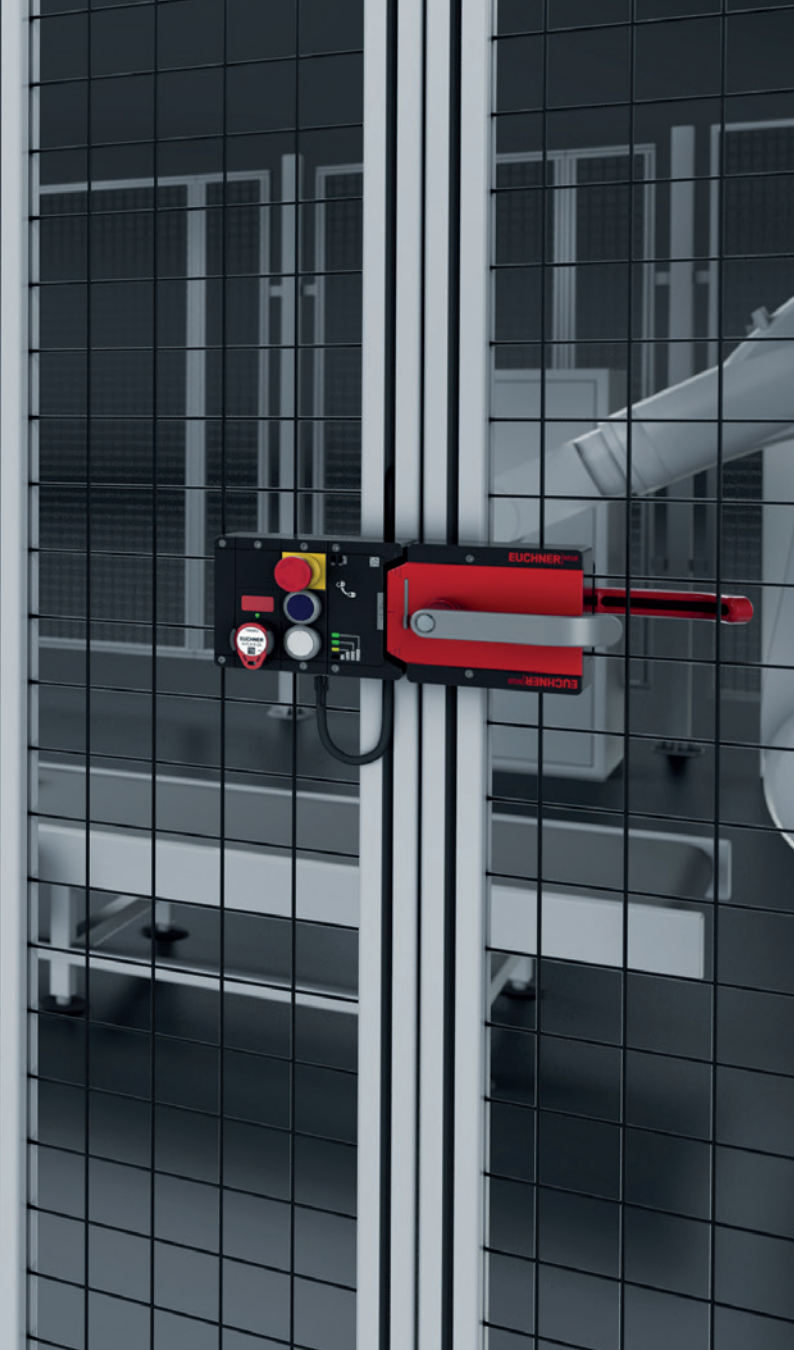
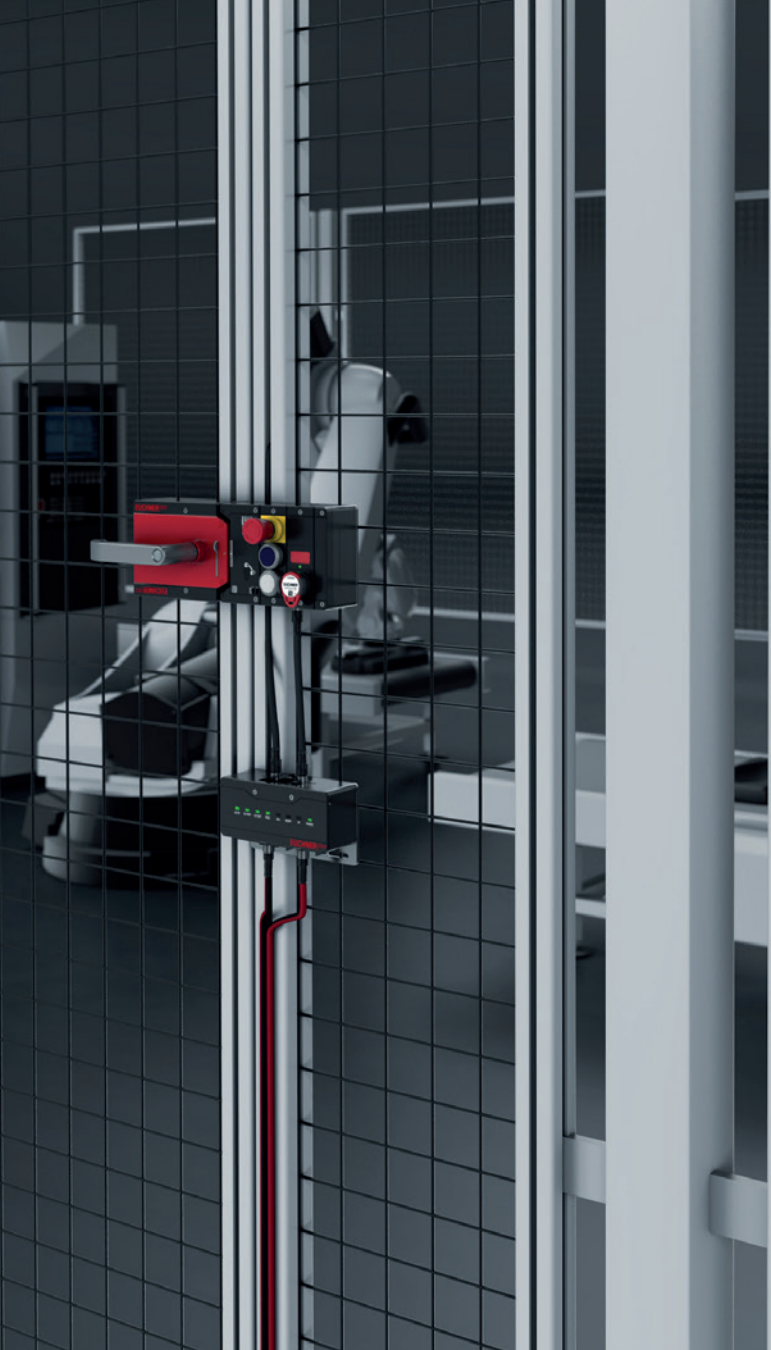
What if you require functions independent of the door locking system? The MGB2 *Modular* system gives you almost limitless freedom, and it can also be used without a handle or locking module independently of a safety fence in many applications. Simply combine the MCM expansion module with the bus module to create your **custom function box** wherever you need it.

One way you can use the expansion module is as a **decentralized control terminal** by implementing signaling or control functions with the submodules in the expansion modules, e.g. for an emergency stop function or for controlling a robot. You can also use the expansion module with suitable submodules as a **safe key system** or a **decentralized peripheral device** for connecting electro-mechanical and electronic safety switches.

Benefits for you

- ▶ Selection of smaller and larger expansion modules
- ▶ Decentralized function box inside and outside the safety fence
- ▶ Bus module as a data collector and gateway
- ▶ Industry 4.0 ready: comprehensive diagnostic and communication functions provided
- ▶ Minimal wiring effort
- ▶ Simple parameter assignment





OUR PRODUCTS FOR YOUR SAFETY

DOOR DETECTION

Transponder-coded safety switches without guard locking
CES-C04 / CES-C07

Magnetically coded safety switches without guard locking
CMS

Electromechanical safety switches without guard locking
NM / NP / GP / NZ

GUARD LOCKING

Transponder-coded safety switches with guard locking
CTS / CTM / CTP / CTA / CET

Electromechanical safety switches with guard locking
TP / STP / STA / STM

Safety switches with integrated mounting magnet
CEM-C40 / CEM-C60

DOOR LOCKING SYSTEMS

MGB / MGB2 / MGBS

TRANSPONDER-CODED KEY SYSTEMS

EKS / CKS / CKS2

OPERATING DEVICES

ZSM / ZSB / HBA / HBM

LIGHT GRIDS / LIGHT CURTAINS

LCA

EMERGENCY STOP DEVICES

ES / RPS

SAFETY CONTROL SYSTEMS / SAFETY RELAYS

MSC / ESM / ESM-CB / GWY

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