EN

Multifunctional Gate Box
MGB

EUCHNER
More than safety.

EUCHNER

More than safety.

Headquarters in Leinfelden-Echterdingen

Logistics center in Leinfelden-Echterdingen

Production location in Unterböhringen

Internationally successful – the EUCHNER company

EUCHNER GmbH + Co. KG is a world-leading company in the area of industrial safety technology. EUCHNER has been developing and producing high-quality switching systems for mechanical and systems engineering for more than 60 years.
The medium-sized family-operated company based in Leinfelden, Germany, employs around 750 people around the world.

18 subsidiaries and other sales partners in Germany and abroad work for our international success on the market.

Quality and innovation – the EUCHNER products

A look into the past shows EUCHNER to be a company with a great inventive spirit. We take the technological and ecological challenges of the future as an incentive for extraordinary product developments.

EUCHNER safety switches monitor safety doors on machines and installations, help to minimize dangers and risks and thereby reliably protect people and processes. Today, our products range from electromechanical and electronic components to intelligent integrated safety solutions. Safety for people, machines and products is one of our dominant themes.

We define future safety technology with the highest quality standards and reliable technology. Extraordinary solutions ensure the great satisfaction of our customers. The product ranges are subdivided as follows:

- Transponder-coded Safety Switches
- Transponder-coded Safety Switches with guard locking
- Multifunctional Gate Box MGB
- Access management systems (Electronic-Key-System EKS)
- Electromechanical Safety Switches
- Magnetically coded Safety Switches
- Enabling Switches
- Safety Relays
- Emergency Stop Devices
- Hand-Held Pendant Stations and Handwheels
- Safety Switches with AS-Interface
- Joystick Switches
- Position Switches

made in Germany

Contents

Multifunctional Gate Box MGB

General information **4**

System overview and selection aid **7**

Approvals and explanation of symbols **8**

System family MGB **9**

Interlocking sets MGB-L0-... 10

Locking sets MGB-L1-... 16

Locking sets MGB-L2-... 38

Technical data and dimension drawings 50

System family MGB with control module **53**

Interlocking sets MGB-L0C-AR... 54

Locking sets MGB-L1C-AR... 56

Locking sets MGB-L2C-AR... 58

Technical data and dimension drawings 60

Expansions and accessories for MGB-AP and MGB-AR **63**

System family MGB-PN **85**

Locking sets MGB-L1-PN... 86

Locking sets MGB-L2-PN... 98

Control modules MGB-...-PN... 114

Technical data and dimension drawing 120

Item index **126**

Item index by item designation 126

Item index by order numbers 128

A handle on the future

The MGB (**Multifunctional Gate Box**) is a unique interlocking or guard locking system for the protection of safety doors on machines and systems.

The MGB offers that little bit more: it is more than a safety switch, more than a bolt, and offers a lot more functionality!

A system that can grow with your needs
Even the basic system comprising handle module and evaluation module (as interlocking module or locking module) includes numerous functions. Whether interlocking, guard locking, escape release or other functions such as pushbuttons for start/stop, emergency stop, etc. – the MGB meets all your requirements for safety-related applications.

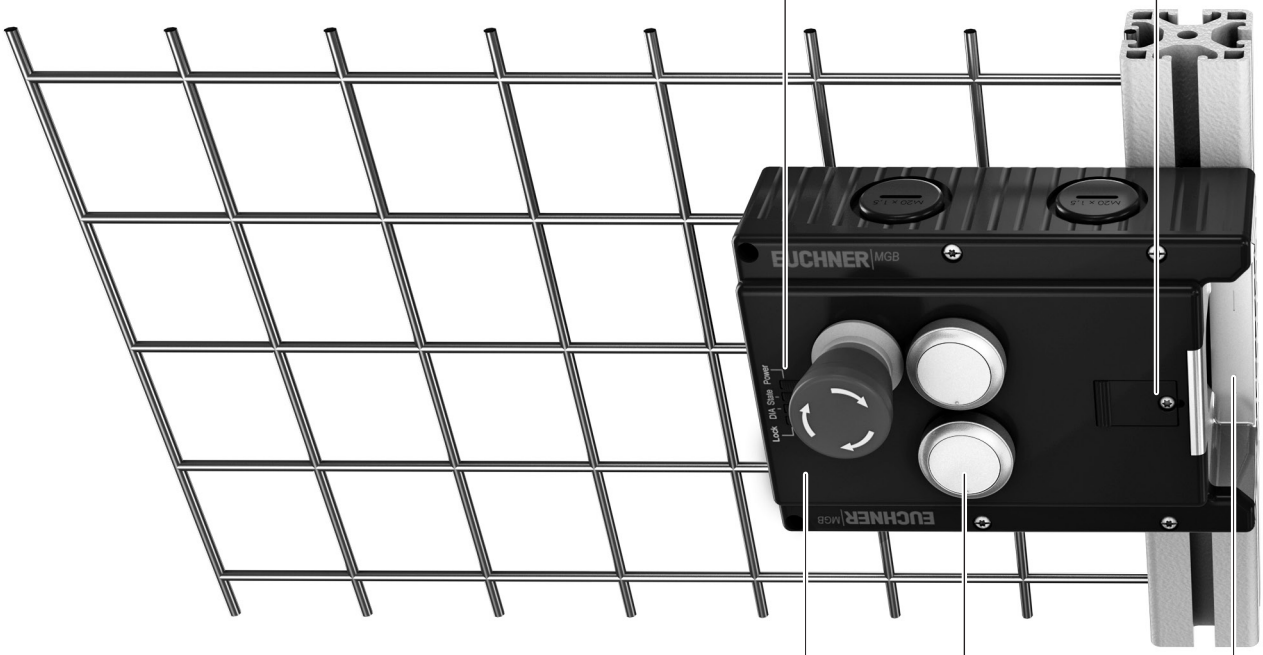
And if your needs grow, the MGB system grows with them. Due to the sophisticated modular design, the evaluation module can quickly become a small control panel.

Or with an additional control module straight away
In the wide variety of different MGBs, you will definitely find the right one for your application. If not, using the control module you can add lamps, pushbuttons or even completely different operating functions. The control module is permanently fastened to the evaluation module using the connection set.

Be certain of compliance with standards
Performance Level e in accordance with EN ISO 13849-1 or SIL3 in accordance with EN 62061 – even with the basic system you meet all these requirements. Also the requirements of EN 14119 for protection against tampering are met automatically, as each evaluation module is permanently assigned to a handle module in the unicode version.

Everything at a glance
The LED indicator continuously provides you with all important system information. Diagnostics and status check!

Auxiliary release
For releasing the guard locking, e.g. in case of a power failure.



Flexible color cover adaptation
The colors of the pushbuttons can be adapted as required and interchanged. 5 different color covers are available for this purpose.

Interlocking/ locking module

Space for ideas...
Control elements and indicators in one housing cover turn the MGB into an all-rounder. Equipped with a start button, an emergency stop and/or other functions, the interlocking/locking module becomes a true control terminal.

Solid end stop
A mechanical stop for the handle module mounted in the door is perfectly integrated into the locking module MGB-L…. A marking on the stop makes adjustment easier.

Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Safety remains the most important goal
Are you locked in inside the danger zone? The optional escape release is intuitive to operate! Whether in the event of a power failure or active guard locking – simply press down the red door handle to leave the danger zone quickly.
For protection when working in the danger zone you can block the bolt tongue using up to 3 padlocks in the integrated lockout mechanism. Unintentional activation of the interlocking/guard locking is prevented.
Is the lockout mechanism to extend automatically when the door is open? No problem with the right handle module.

Easy to mount and sophisticated design
All MGB modules are optimized for use on fences made of aluminum profiles or steel frames. The MGB is equally suitable for doors hinged on the left or right. Both mounting and changing the actuating direction can be undertaken particularly quickly and easily. Usage on safety doors that are not constructed of profiles, works of course just as well.

The adjustment of safety doors in fences changes over time. With ± 4 mm tolerance in the x direction as well as ± 5 mm in the z direction, the MGB is right there where the problem starts. Nevertheless, if a safety door should be even more out of adjustment, the large funnel in the evaluation module "catches" the bolt tongue and guides it into the center position.

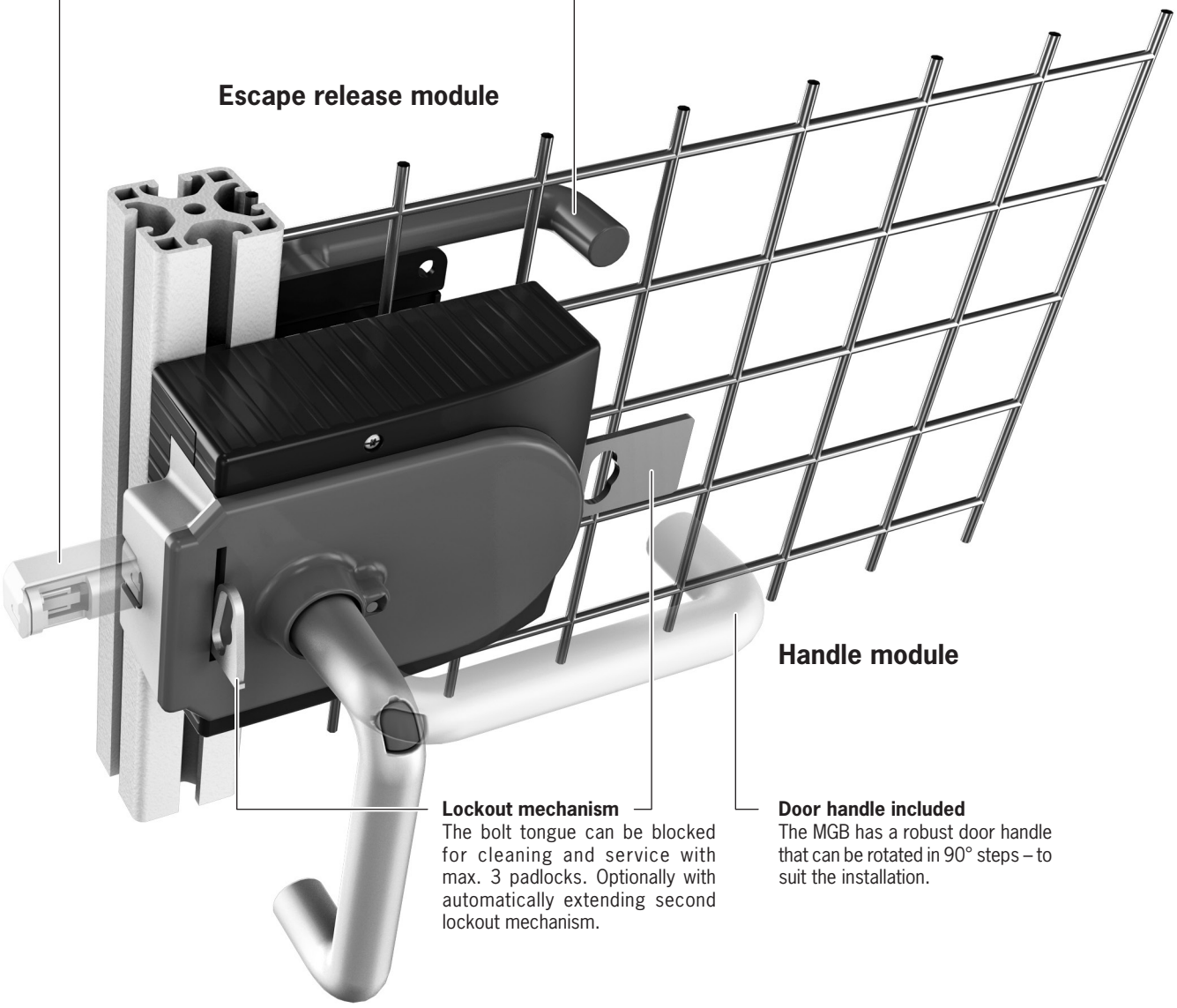
Bolt tongue, bolt guide and insertion funnel will also withstand occasional slamming of the door. Robust metal parts protect the MGB against this problem as well. To prevent injuries, the bolt tongue remains retracted with the door open. Do you use hinged doors or sliding doors? The MGB is suitable for both. This aspect eases spare parts stockholding.

You always have an overview
Four built-in LEDs continuously provide all the necessary system information: power supply available, door closed, bolt tongue inserted, guard locking activated, diagnostics messages – everything can be seen clearly at a glance. This information is of course also available to the control system.

(Read on the next page what else there is in the MGB!)

Intelligent bolt tongue
The bolt tongue is reliably detected by the transponder as soon as it is inserted in the interlocking/locking module.

Escape release (optional)
The safety system MGB can be complemented by an escape release module. The escape release enables people accidentally shut in to open the guard locked door from the danger zone.



Lockout mechanism
The bolt tongue can be blocked for cleaning and service with max. 3 padlocks. Optionally with automatically extending second lockout mechanism.

Door handle included
The MGB has a robust door handle that can be rotated in 90° steps – to suit the installation.

Sophisticated accessories
Whether you need mounting plates for easier attachment, pre-assembled cables or a long escape release actuation axis (as the safety door needs to be very thick), you will find all you need in the accessories section.

Economical wiring according to standards
All devices in the family AR can be wired directly in series in a so-called AR series connection without reducing safety or the PL. As a consequence evaluation units are saved. AR devices are also available in the EUCHNER series CES and CET.
The family MGB-AP is particularly suitable for the protection of individual safety doors. If series connection is not necessary, wiring can then be saved. This version has different timing to the AR version.

Seamless integration by means of bus connection
In the PROFINET version we now also make the wiring easier for you. You define which element is to be integrated and the related function. The MGB supplies the protocol frame with the necessary PROFINET input and output bytes required.
Comprehensive diagnostic information in the form of PROFINET messages makes troubleshooting quick and specific. Due to the typical ease with which parameters can be set in PROFINET, even the replacement of the system in case of service is a simple matter and can be undertaken in a few minutes.

Interlocking or guard locking?
Functions of the versions MGB-L0, MGB-L1 and MGB-L2 compared

Interlocking devices (MGB-L0, without guard locking)
Together with a handle module, the interlocking module makes it possible to interlock the control of movable guards. The combination also serves as a mechanical door stop at the same time.
The following switch-on condition applies to the safety outputs FO1A and FO1B (see also System status table):
- Guard closed (but can be opened at any time)
- Bolt tongue inserted in the interlocking module

The interlocking module detects the position of the guard and the position of the bolt tongue.
The bolt tongue in the handle module is moved into and out of the interlocking module by actuating the door handle.

Guard locking devices (MGB-L1 and MGB-L2)
Together with a handle module, the locking module makes it possible to lock movable guards. The combination also serves as a mechanical door stop at the same time.
The following switch-on condition applies to the safety outputs FO1A and FO1B (see also System status table):
- Guard closed
- Bolt tongue inserted in the locking module
- Locking arm in locking position (the door cannot be opened)

The locking module detects the position of the guard and the position of the bolt tongue. The position of the guard locking is also monitored.
The bolt tongue in the handle module is moved into and out of the locking module by actuating the door handle.
When the bolt tongue is fully inserted in the locking module, the locking arm locks the bolt tongue in this position. Depending on the version, this locking is by spring force or solenoid force.

- **Version MGB-L1:** The locking arm is held in the locked position by spring force and is unlocked by solenoid force (closed-circuit current principle, mechanically locked).
- **Version MGB-L2:** The locking arm is held in the locked position by solenoid force and is unlocked by spring force when the solenoid is switched off (open-circuit current principle, electrically locked).

  Warning!
  The guard can be opened immediately in the event of interruption of the solenoid power supply with the version MGB-L2-...!
  This type may be used only in special cases after strict assessment of the accident risk (see EN ISO 14119:2013, section 5.7.1)!
  Example: If the risk of accidental locking inside a guard during a power failure is higher than the risk of ineffective guard locking.

Flexible adaptation through configuration
The evaluation module can be configured with the aid of DIP switches. Depending on the setting, the evaluation module behaves like an MGB-AP or MGB-AR device. In addition, guard lock monitoring can be switched on or off, if guard locking is installed.
From V2.2.0, an unlocking monitoring function can be activated that signals whether the auxiliary release or escape release was actuated when guard lock monitoring is active.

Connection to evaluation units or safe control systems
The safety system MGB can be connected to almost any safe evaluation unit or to any safe control system. For this purpose the cross circuit monitoring on the control system is disabled – this function is performed by the MGB. Performance Level e is of course retained.

The advantages of the Multifunctional Gate Box MGB

- Suitable for all profiles (optimized for mounting on profiles)
- Tolerance ± 4 mm in x direction, ± 5 mm in z direction
- Locking force 2000 N
- The MGB withstands forces amounting up to 300 Joule
- Optional escape release with door handle
- Optional pushbuttons and indicators can be integrated directly into the housing
- Stable metal stop prevents damage with bolt tongue extended
- Marking on the evaluation module as adjustment aid
- The actuating direction is easy to change without disassembly
- Hidden mounting holes with slots and metal mounting surfaces
- Housing material made of high quality, fiber glass reinforced plastic
- Escape release can also be used on doors with double rebate

These features are available in all devices in the families MGB-AP and MGB-AR

- Emergency release
- Connection by cable entry, max. 1.5 mm² or plug connector
- Plug connector connection, either M23 or M12 12-pin
- Series connection (only with system family AR, for description see above)
- Connection of pushbuttons to common power supply DC 24 V
- Connection of lamps to common ground
- Operation of guard locking via IMP as control input on PLC (only 3 mA)
- Monitoring outputs
  - OD = Door closed
  - OT = Bolt tongue inserted in the evaluation module (in case of guard locking devices ready for operation of the solenoid)
  - OL = Guard locking solenoid kept in locked position
  - OI = Diagnostics, there is a fault

Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

System families at a glance

The tables on this page provide you with a quick overview of the features and strengths of the related product family as well as the possible expansions.

What system families are available?

System family	Symbol	Use
MGB-AP		**If series connection is not necessary, the number of terminals can be reduced using this system family.**
MGB-AR		**Linking of several guards on one shutdown path. As a consequence several safety doors can be very simply polled using one evaluation unit or two control system inputs.**
MGB-PN		**How to utilize the maximum functionality of the MGB in a Profinet environment. Ease of replacement and flexibility are in the foreground here.**

It is possible to switch between the MGB-AP and MGB-AR families using DIP switches.

System families compared

The tables provide you with a quick overview of the features and strengths of the related product family as well as the possible expansions.

Feature / special aspect	System family		
	MGB-AP	**MGB-AR**	**MGB-PN**
Separate operation	●	○	–
Series connection	–	●	–
Bus connection	–	–	●
Simple diagnostics	○	○	●
Little wiring	●	○	●

Key:

● Particularly suitable ○ Suitable – Not applicable/not possible

Function / expansion	System family		
	MGB-AP	**MGB-AR**	**MGB-PN**
Evaluation module with additional functions	● Selection from existing versions, customer-specific version possible *	● Selection from existing versions, customer-specific version possible*	● Selection from existing versions, customer-specific version possible*
Control module with additional functions	○ Flexible configuration due to kit MGB-C (only devices with cable entry)	○ Flexible configuration due to kit MGB-C (only devices with cable entry)	○ Configuration from factory by EUCHNER
Mounting plates	○	○	●
Connection for enabling switch	○ Available in some versions	○	○ Available in some versions
Escape release	Already contained in some sets, can be upgraded at any time.		

Key:

● Standard ○ Optional or on request – Not possible

*) Note minimum order quantity of 50 pieces!

Approvals

To demonstrate conformity, the Machinery Directive also includes the possibility of type examination. Although all relevant standards are taken into account during development, we have all our safety switches subjected to additional type examinations by a notified body.
Many of the devices listed in this catalog have been tested by the German Social Accident Insurance association (DGUV), formerly the employers' liability insurance association (BG), and are given in the lists from the DGUV.
With the aid of the approval symbols listed below you can quickly see which approvals are available for the related devices:

DGUV Test ET Sicherheit geprüft tested safety	Devices with this symbol are type examined by the German Social Accident Insurance association (DGUV) – formerly the employers' liability insurance association (BG)
UL LISTED	All MGB devices comply with the stipulations of Underwriter Laboratories (UL) and carry the symbol

Explanation of symbols

System families

AP	System family MGB-AP for separate operation
AR	System family MGB-AR for separate operation or series connection with other AR devices
PROFINET PN	System family MGB-PN for operation in PROFINET environment

Safety category/guard locking

Cat. 4 PLe	Suitable up to category 4 or Performance Level e in accordance with EN ISO 13849-1
	Guard locking for personnel protection
	Guard locking for process protection

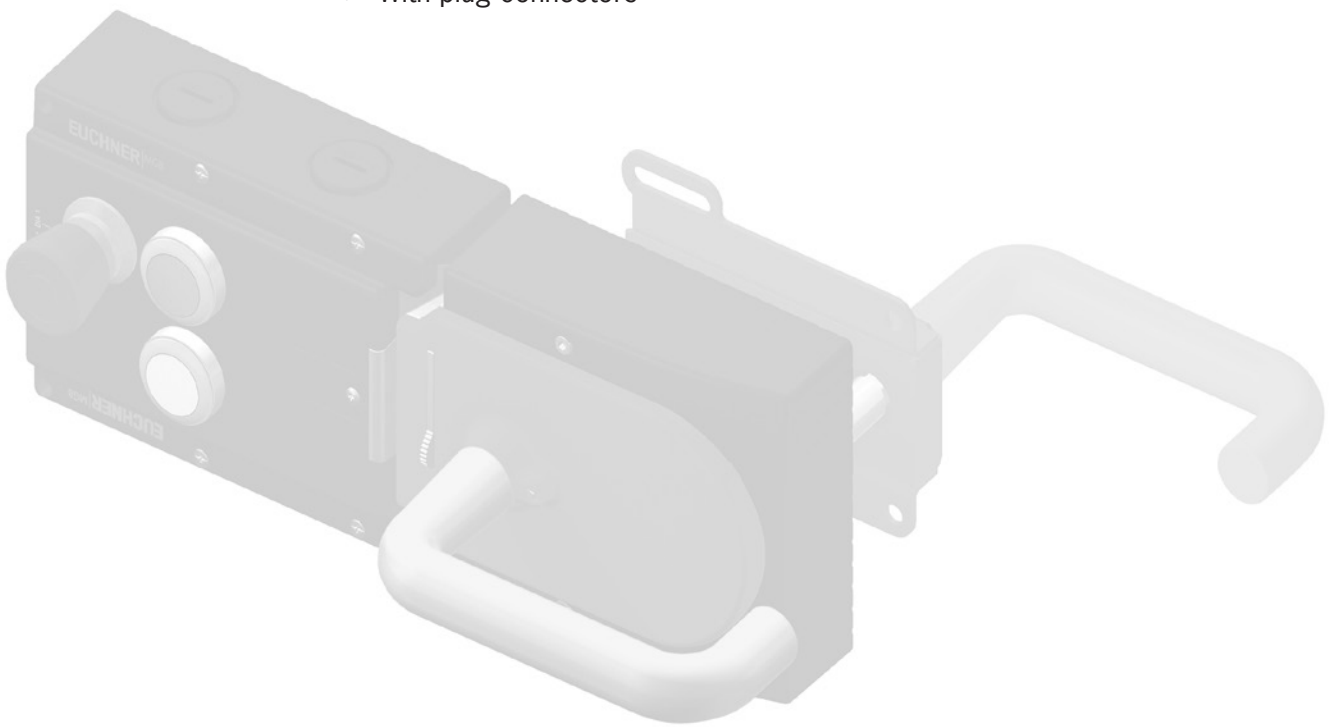
Controls and indicators

STOP	Emergency stop according to ISO 13850
STOP	Illuminated emergency stop
STOP	Emergency stop with monitoring contact
	Machine stop (black-silver)
	Machine stop (black-silver) with monitoring contact
	Illuminated pushbutton
	Pushbutton not illuminated
	LED
0 1	Selector switch form V
0 1	Selector switch form V illuminated
0 1	Key-operated selector switch form V
0 –1	Key-operated selector switch form L
	Pushbutton labeling "Unlocked"
	Pushbutton labeling "Locked"
	Other possible button labels

Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

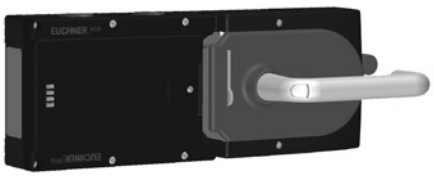
Complete sets system families MGB-AP/MGB-AR

- Interlocking or guard locking with handle module
- With escape release
- With pushbuttons and emergency stop
- With plug connectors



Interlocking sets MGB-L0-... (without guard locking)	**10 - 15**
without controls and indicators	10
with 2 controls and indicators	12
with 3 controls and indicators	14
Locking sets MGB-L1-... (guard locking by spring force)	**16 - 36**
without controls and indicators	16
with 1 control and indicator	18
with 2 controls and indicators	20
with 3 controls and indicators	26
with 4 controls and indicators	34
Locking sets MGB-L2-... (guard locking by solenoid force)	**38 - 49**
without controls and indicators	38
with 2 controls and indicators	40
with 3 controls and indicators	44
with 4 controls and indicators	48
Technical data	**50**
Dimension drawings	**51**

Interlocking sets MGB-L0-...
without controls or indicators



- **Can be connected in series with other AR devices (e.g. CES-AR, CET-AR and CTP-AR)**
- **With cable entry**

Further information

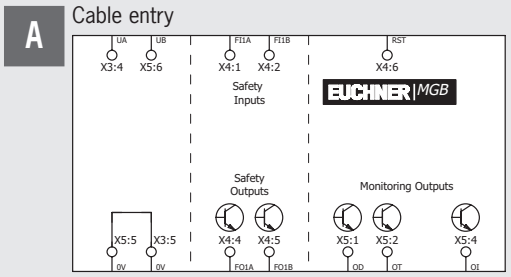
- **Dimension drawings see p. 51**
- **Technical data see p. 50**
- **Accessories and spare parts see p. 63**
- **www.euchner.com**

Ordering table

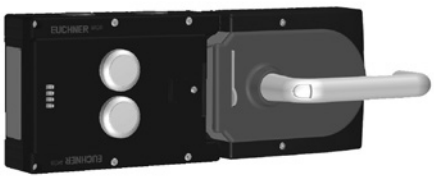
Modules in the set										Ordering data, set
	Locking module						Handle module Order no. separate module	Escape release Order no. separate module	Door hinge (factory setting)	Order no./item
Version/configuration scheme Order no. separate module		S1 H1	S2 H2	S3 H3	S4 H4	Wiring diagram				
AR	105331	–	–	–	–	A	100464	–	Right	**105778** MGB-L0H-AR-R-105778
AR	105331	–	–	–	–	A	100464	100465	Right	**105780** MGB-L0HE-AR-R-105780

Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Block diagram



Interlocking sets MGB-L0-...
with 2 controls or indicators



Details

Lens set
The color of the pushbutton can be selected using the lens set 120344 included.

Further information

- **Dimension drawings see p. 51**
- **Technical data see p. 50**
- **Accessories and spare parts see p. 63**
- **www.euchner.com**

- **Can be connected in series with other AR devices (e.g. CES-AR, CET-AR and CTP-AR)**
- **With cable entry**
- **Integrated controls and indicators**

Ordering table for complete sets

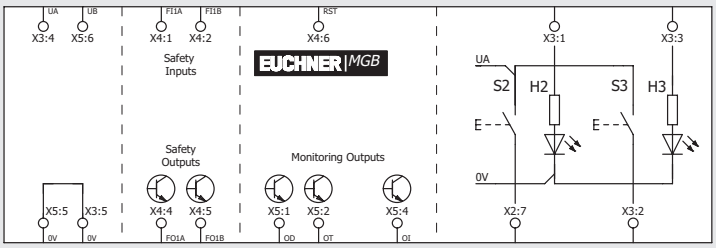
Modules in the set										Ordering data, set
Locking module							Handle module Order no. separate module	Escape release Order no. separate module	Door hinge (factory setting)	
Version/configuration scheme Order no. separate module		S1 H1	S2 H2	S3 H3	S4 H4	Wiring diagram				Order no./item
AR	121058	–	*)	*)	–	A	100464	–	Right	**121059** MGB-L0H-ARA-R-121059

* The color can be selected using the lens set included.

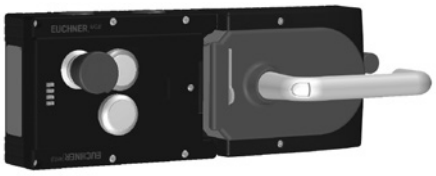
Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Block diagram and wiring diagram for controls and indicators

A Cable entry



Interlocking sets MGB-L0-...
with 3 controls or indicators



- **Can be connected in series with other AR devices (e.g. CES-AR, CET-AR and CTP-AR)**
- **With cable entry or plug connector**
- **Integrated controls and indicators**

Details

Emergency stop with monitoring contact
Additional normally open contact in the emergency stop, e.g. as monitoring contact for the control system.

Lens set
The color of the pushbutton can be selected using the lens set 120344 included.

Adhesive labels
Devices with adhesive labels have pre-formed recesses. The adhesive labels enclosed (standard size 12.5 x 27 mm) can be affixed in these recesses.

Further information

- **Dimension drawings see p. 51**
- **Technical data see p. 50**
- **Accessories and spare parts see p. 63**
- **www.euchner.com**

Ordering table

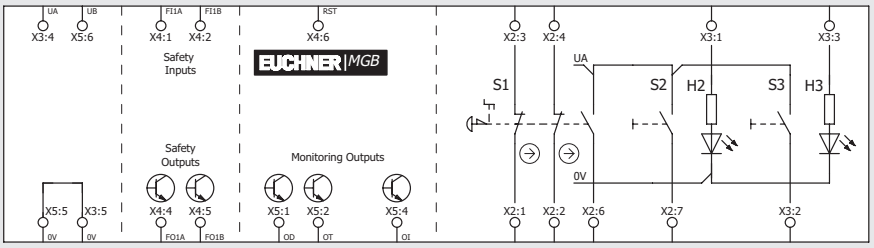
Modules in the set										Ordering data, set
		Locking module					Handle module Order no. separate module	Escape release Order no. separate module	Door hinge (factory setting)	Order no./item
Version/configuration scheme Order no. separate module		S1 H1	S2 H2	S3 H3	S4 H4	Wiring diagram				
AR	121232	STOP	*)	*)	–	A	100464	100465	Right	**121233** MGB-L0HE-ARA-R-121233
	121253 Incl. adhesive labels							–		**121254** MGB-L0H-ARA-R-121254
	121259 Incl. adhesive labels						106619		Left	**121260** MGB-L0H-ARA-L-121260
	116300 Incl. adhesive labels	STOP	ye	wh	–	B	111157	100465	Right	**110691** MGB-L0HE-ARA-R-110691
	116302 Incl. adhesive labels						111158		Left	**110692** MGB-L0HE-ARA-L-110692

* The color can be selected using the lens set included.

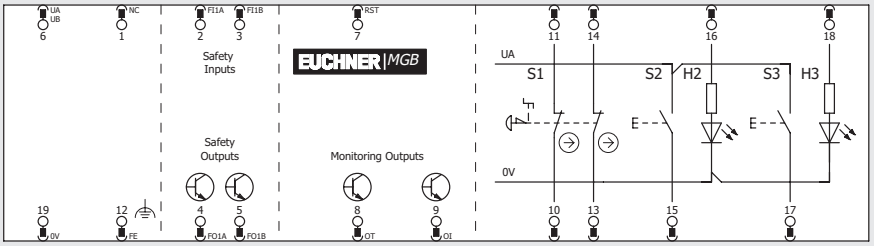
Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Block diagram and wiring diagrams for controls and indicators

A Cable entry



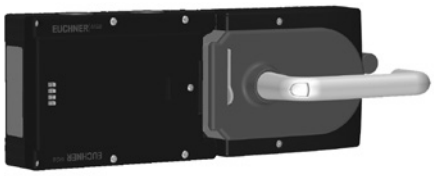
B Plug connector M23



MGB-AP

MGB-AR

Locking sets MGB-L1-... (guard locking by spring force)
without control or indicator



- **Can be connected in series with other AR devices (e.g. CES-AR, CET-AR and CTP-AR)**
- **With cable entry or plug connector**

Further information

- **Dimension drawings see p. 51**
- **Technical data see p. 50**
- **Accessories and spare parts see p. 63**
- **www.euchner.com**

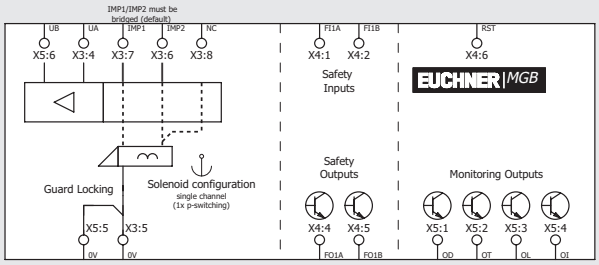
Ordering table

Modules in the set										Ordering data, set
	Locking module						Handle module Order no. separate module	Escape release Order no. separate module	Door hinge (factory setting)	Order no./item
Version/configuration scheme Order no. separate module		S1 H1	S2 H2	S3 H3	S4 H4	Wiring diagram				
AR	104302	–	–	–	–	A	100464	100465	Right	**105784** MGB-L1HE-AR-R-105784
								–		**105782** MGB-L1H-AR-R-105782
	111071					B				**111070** MGB-L1H-ARA-R-111070
	111074						106619		Left	**111073** MGB-L1H-ARA-L-111073

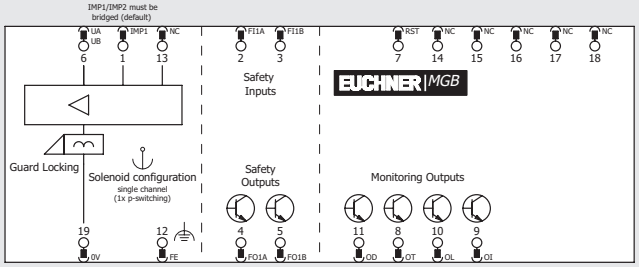
Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Block diagram

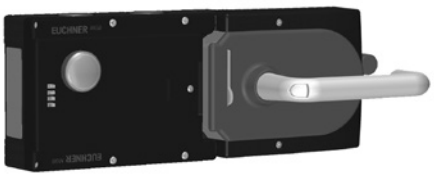
A Cable entry



B Plug connector M23



Locking sets MGB-L1-... (guard locking by spring force)
with one control or indicator



Details

Lens set
The color of the pushbuttons can be selected using the lens set 120344 included.

Further information

- **Dimension drawings see p. 51**
- **Technical data see p. 50**
- **Accessories and spare parts see p. 63**
- **www.euchner.com**

- **Can be connected in series with other AR devices (e.g. CES-AR, CET-AR and CTP-AR)**
- **With cable entry or plug connector**
- **Integrated control and indicator**

Ordering table

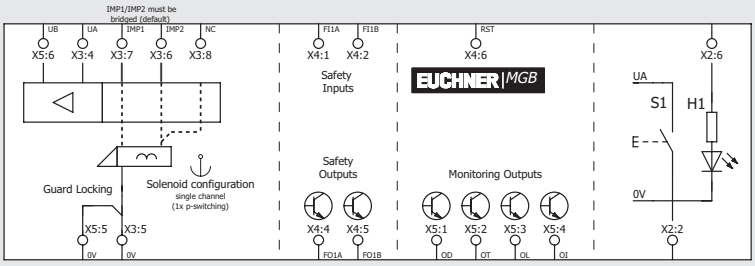
Modules in the set										Ordering data, set
Locking module							Handle module Order no. separate module	Escape release Order no. separate module	Door hinge (factory setting)	Order no./item
Version/configuration scheme Order no. separate module		S1 H1	S2 H2	S3 H3	S4 H4	Wiring diagram				
AR	120990	*)	–	–	–	A	100464	100465	Right	**120991** MGB-L1HE-ARA-R-120991
AR	121034	*)	–	–	–	B	100464	100465	Right	**121035** MGB-L1HE-ARA-R-121035
AR	121039	*)	–	–	–	B	106619	100465	Left	**121040** MGB-L1HE-ARA-L-121040

* The color can be selected using the lens set included.

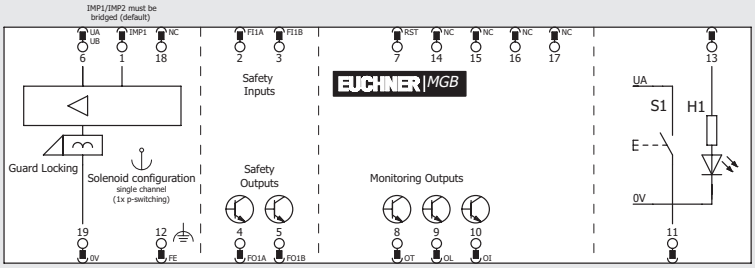
Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Block diagram and wiring diagrams for control and indicator

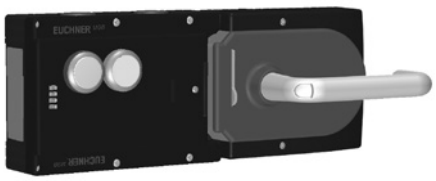
A Cable entry



B Plug connector M23



Locking sets MGB-L1-... (guard locking by spring force)
with 2 controls or indicators



- **Can be connected in series with other AR devices (e.g. CES-AR, CET-AR and CTP-AR)**
- **With cable entry or plug connector**
- **Integrated controls and indicators**

Details

Emergency stop with monitoring contact
Additional normally open contact in the emergency stop, e.g. as monitoring contact for the control system.

Key-operated rotary switch
- **Form L**, 90° angle of rotation with 2 positions. The key latches in both positions and can be removed in both positions. Devices with key-operated switch form L have degree of protection IP 54.
- **Form V,** 40° angle of rotation with 2 positions. The key latches in position 0 and can be removed in position 0.

Lens set
The color of the pushbuttons can be selected using the lens set 120344 included.

Adhesive labels
Devices with adhesive labels have pre-formed recesses. The adhesive labels enclosed (standard size 12.5 x 27 mm) can be affixed in these recesses.

Further information
- **Dimension drawings see p. 51**
- **Technical data see p. 50**
- **Accessories and spare parts see p. 63**
- **www.euchner.com**

Ordering table

Modules in the set										Ordering data, set
	Locking module						Handle module Order no. separate module	Escape release Order no. separate module	Door hinge (factory setting)	Order no./item
Version/configuration scheme Order no. separate module		S1 H1	S2 H2	S3 H3	S4 H4	Wiring diagram				
AR	121130 ①②	STOP	⊗ *)	–	–	A	100464	100465	Right	**121131** MGB-L1HE-ARA-R-121131
AR	121050 ①②	⊗ *)	⊗ *)	–	–	B	100464	–	Right	**121051** MGB-L1H-ARA-R-121051
AR	121050 ①②	⊗ *)	⊗ *)	–	–	B	100464	100465	Right	**121052** MGB-L1HE-ARA-R-121052
AR	124691 ①② IP 54	Form L, 90°	⊗ *)	–	–	C	100464	–	Right	**124098** MGB-L1H-ARA-R-124098
AR	124692 ②① IP 54	Form L, 90°	⊗ *)	–	–	C	106619	–	Left	**124099** MGB-L1H-ARA-L-124099

* The color can be selected using the lens set included.

(Continued on next page)

Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Ordering table (continued)

Modules in the set										Ordering data, set
		Locking module					Handle module Order no. separate module	Escape release Order no. separate module	Door hinge (factory setting)	Order no./item
Version/configuration scheme Order no. separate module		S1 H1	S2 H2	S3 H3	S4 H4	Wiring diagram				
AR	119806 ①② IP 54	wh	Form V 40°	–	–	D	114655	100465	Right	**119807** MGB-L1HE-ARA-R-119807
	119808 ②① IP 54						114656		Left	**119809** MGB-L1HE-ARA-L-119809
	121060 ②③	–			–	E	100464	–	Right	**121061** MGB-L1H-ARA-R-121061
								100465		**121062** MGB-L1HE-ARA-R-121062
	121086 ②③ Incl. adhesive labels		*)	*)						**121087** MGB-L1HE-ARA-R-121087 (with lens set 120378)
								–		**121170** MGB-L1H-ARA-R-121170
	121088 ②③ Incl. adhesive labels						106619	–	Left	**121171** MGB-L1H-ARA-L-121171
								100465		**121089** MGB-L1HE-ARA-L-121089 (with lens set 120378)
	121067 ②③									**121069** MGB-L1HE-ARA-L-121069
								–		**121068** MGB-L1H-ARA-R-121068

* The color can be selected using the lens set included.

(Continued on next page)

Locking sets MGB-L1-... (guard locking by spring force)
with 2 controls or indicators

Ordering table (continued)

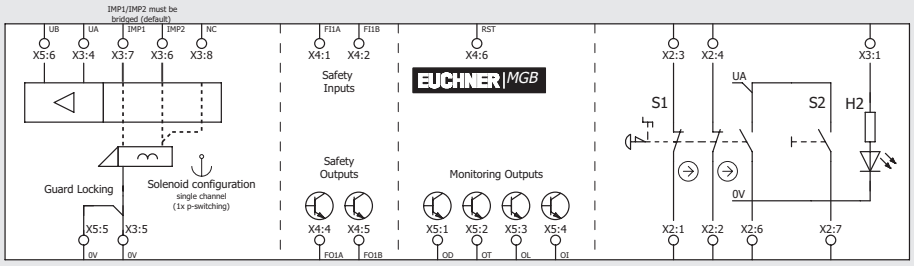
Modules in the set										Ordering data, set
		Locking module					Handle module Order no. separate module	Escape release Order no. separate module	Door hinge (factory setting)	
Version/configuration scheme Order no. separate module		S1 H1	S2 H2	S3 H3	S4 H4	Wiring diagram				Order no./item
AR	121104 ①② Incl. adhesive labels	*)	*)	–	–	F	100464	–	Right	**121105** MGB-L1H-ARA-R-121105
AR	121106 ②① Incl. adhesive labels	*)	*)	–	–	F	106619	–	Left	**121107** MGB-L1H-ARA-L-121107
AR	111653 ② ③ Incl. adhesive labels	–	ye	wh	–	G	100464	–	Right	**111655** MGB-L1H-ARA-R-111655
AR	111654 ② ③ Incl. adhesive labels	–	ye	wh	–	G	106619	–	Left	**111656** MGB-L1H-ARA-L-111656

* The color can be selected using the lens set included.

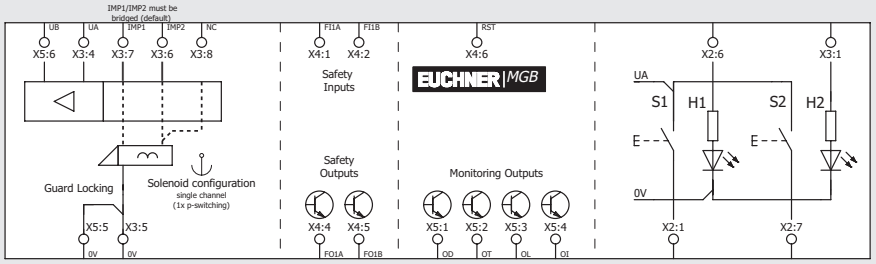
Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Block diagram and wiring diagrams for controls and indicators

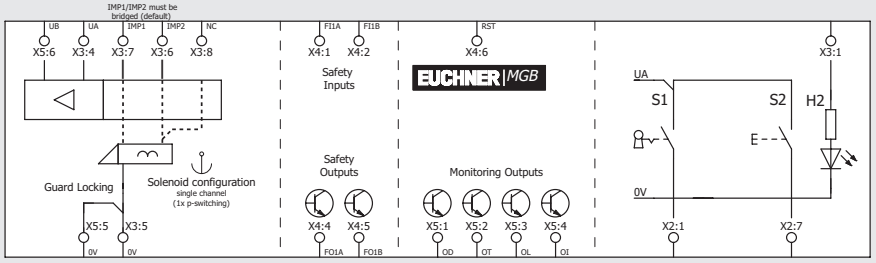
A Cable entry



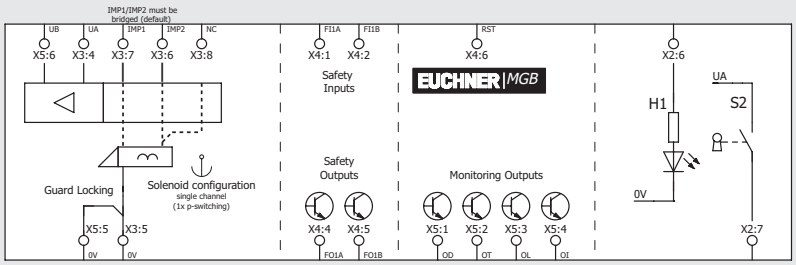
B Cable entry



C Cable entry



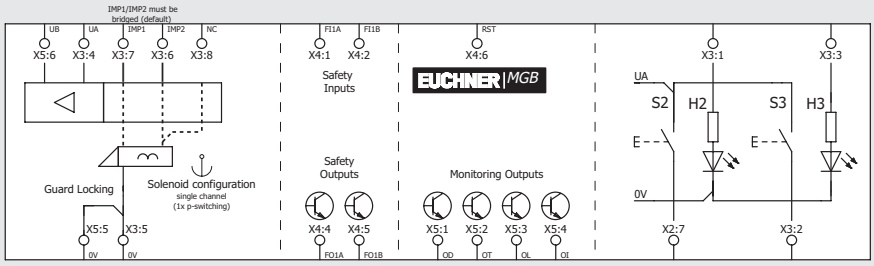
D Cable entry



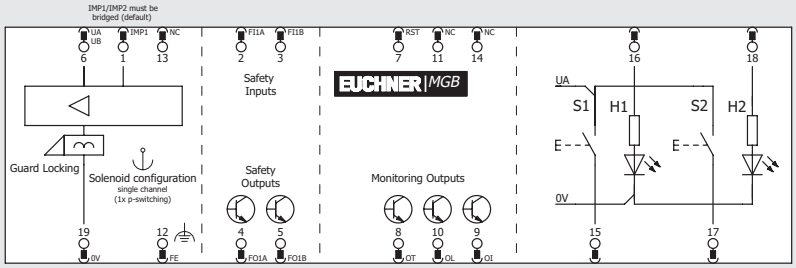
Locking sets MGB-L1-... (guard locking by spring force)
with 2 controls or indicators

Block diagram and wiring diagrams for controls and indicators

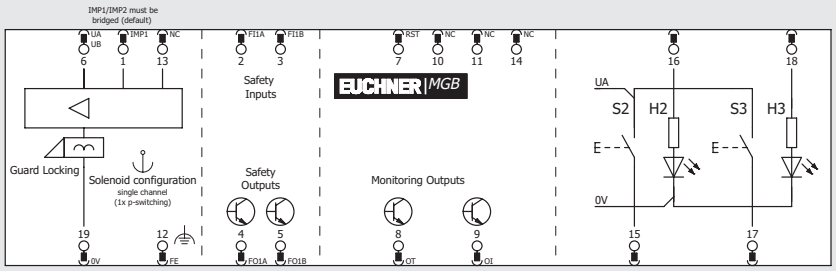
E Cable entry



F Plug connector M23

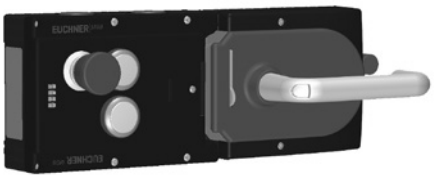


G Plug connector M23



Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Locking sets MGB-L1-... (guard locking by spring force)
with 3 controls or indicators



- **Can be connected in series with other AR devices (e.g. CES-AR, CET-AR and CTP-AR)**
- **With cable entry or plug connector**
- **Integrated controls and indicators**

Details

Release monitoring activated
When release monitoring is active, the system enters into a latching fault when the escape release or auxiliary release is actuated.

Emergency stop with monitoring contact
Additional normally open contact in the emergency stop, e.g. as monitoring contact for the control system.

Connection for enabling switch
The devices have an M12 plug connector for the direct connection of an enabling switch (e.g. ZSA, order no. 110560).

Lens set
The color of the pushbuttons can be selected using the lens set 120344 included.

Adhesive labels
Devices with adhesive labels have pre-formed recesses. The adhesive labels enclosed (standard size 12.5 x 27 mm) can be affixed in these recesses.

Selector switch
Selector switch with 2 positions (form V, 90°). The switch latches in both positions.

Machine stop
Version as emergency stop but in gray/yellow, e.g. as machine stop.
Important: Do not use as emergency stop!

Further information

- **Dimension drawings see p. 51**
- **Technical data see p. 50**
- **Accessories and spare parts see p. 63**
- **www.euchner.com**

Ordering table

Modules in the set										Ordering data, set
		Locking module					Handle module Order no. separate module	Escape release Order no. separate module	Door hinge (factory setting)	Order no./item
Version/configuration scheme Order no. separate module		S1 H1	S2 H2	S3 H3	S4 H4	Wiring diagram				
AP	115224 ①②③	STOP	wh	wh	–	A	100464	–	Right	**115178** MGB-L1H-APA-R-115178
	115225 ②①③						106619		Left	**115179** MGB-L1H-APA-L-115179
	110585 ②④③ Plug connector M12 for enabling switch, incl. adhesive labels	–	wh	ye	bu	B	100464	–	Right	**110587** MGB-L1H-APA-R-110587
	110586 ②③④ Plug connector M12 for enabling switch, incl. adhesive labels						106619		Left	**110588** MGB-L1H-APA-L-110588

(Continued on next page)

Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Ordering table (continued)

Modules in the set										Ordering data, set
		Locking module					Handle module Order no. separate module	Escape release Order no. separate module	Door hinge (factory setting)	Order no./item
Version/configuration scheme Order no. separate module		S1 H1	S2 H2	S3 H3	S4 H4	Wiring diagram				
AP	115894	STOP	gn	rd	–	C	111157	–	Right	**115895** MGB-L1H-APA-R-115895
	115896						111158		Left	**115897** MGB-L1H-APA-L-115897
	114235 Plug connector M12 for enabling switch	–	wh	ye	bu	D	111157	–	Right	**114236** MGB-L1H-APA-R-114236
	114237 Plug connector M12 for enabling switch						111158		Left	**114238** MGB-L1H-APA-L-114238
AR	110219	STOP	ye	wh	–	E	100464	–	Right	**105783** MGB-L1H-AR-R-105783
								100465		**110220** MGB-L1HE-AR-R-110220
	121255 Incl. adhesive labels	STOP	*)	*)	–	E	100464	–	Right	**121256** MGB-L1H-ARA-R-121256
	121234							100465		**121236** MGB-L1HE-ARA-R-121236

* The color can be selected using the lens set included.

(Continued on next page)

Locking sets MGB-L1-... (guard locking by spring force)
with 3 controls or indicators

Ordering table (continued)

Modules in the set										Ordering data, set
Locking module							Handle module Order no. separate module	Escape release Order no. separate module	Door hinge (factory setting)	Order no./item
Version/configuration scheme Order no. separate module		S1 H1	S2 H2	S3 H3	S4 H4	Wiring diagram				
	121261 ② ① ③ Incl. adhesive labels	STOP	*)	*)	–	E	106619	–	Left	**121262** MGB-L1H-ARA-L-121262
	121241 ② ① ③							100465		**121243** MGB-L1H-ARA-L-121243
	109314 ① ② ③	STOP	wh	Form V 90°	–	F	100464	100465	Right	**109313** MGB-L1HE-AR-R-109313
AR	121411 ① ② ③ Incl. adhesive labels		*)	*)	–	E	100464	–	Right	**121412** MGB-L1H-ARA-R-121412
	121413 ② ① ③ Incl. adhesive labels						106619		Left	**121414** MGB-L1H-ARA-L-121414
	117310 ① ② ③ Incl. adhesive labels	STOP	ye	wh	–	G	111157	–	Right	**117314** MGB-L1H-ARA-R-117314
	117312 ② ① ③ Incl. adhesive labels						111158		Left	**117316** MGB-L1H-ARA-L-117316

* The color can be selected using the lens set included.

(Continued on next page)

Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Ordering table (continued)

Modules in the set										Ordering data, set
		Locking module						Handle module Order no. separate module	Escape release Order no. separate module	Door hinge (factory setting)	
Version/configuration scheme Order no. separate module		S1 H1	S2 H2	S3 H3	S4 H4	Wiring diagram				Order no./item
	121215 ①② ③ Incl. adhesive labels	STOP	*)	*)	–	H		100464	100465	Right	**121216** MGB-L1HE-ARA-R-121216
	121217 ②① ③ Incl. adhesive labels							106619		Left	**121218** MGB-L1HE-ARA-L-121218
AR	110792 ①② ③ Incl. adhesive labels							100464	–	Right	**110613** MGB-L1H-ARA-R-110613
	110793 ②① ③ Incl. adhesive labels							106619		Left	**110614** MGB-L1H-ARA-L-110614
	116301 ①② ③ Release monitoring activated, incl. adhesive labels	STOP	ye	wh	–	H		111157	100465	Right	**110689** MGB-L1HE-ARA-R-110689
	116303 ②① ③ Release monitoring activated, incl. adhesive labels							111158		Left	**110690** MGB-L1HE-ARA-L-110690

* The color can be selected using the lens set included.

(Continued on next page)

Locking sets MGB-L1-... (guard locking by spring force)
with 3 controls or indicators

Ordering table (continued)

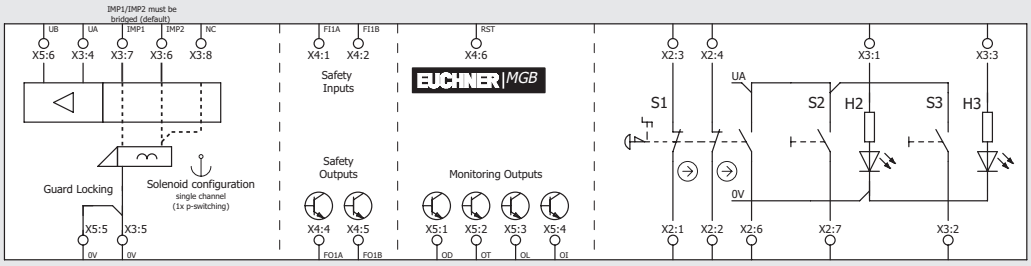
Modules in the set										Ordering data, set
	Locking module						Handle module Order no. separate module	Escape release Order no. separate module	Door hinge (factory setting)	Order no./item
Version/configuration scheme Order no. separate module		S1 H1	S2 H2	S3 H3	S4 H4	Wiring diagram				
AR	111101 Incl. adhesive labels	–	wh	wh	STOP	H	111739	–	Right	**111020** MGB-L1H-ARA-R-111020
AR	111103 Incl. adhesive labels	–	wh	wh	STOP	H	111741	–	Left	**111022** MGB-L1H-ARA-L-111022
AR	121208 Incl. adhesive labels	STOP	*)	*)	–	I	100464	–	Right	**121209** MGB-L1H-ARA-R-121209
AR	121210 Incl. adhesive labels	STOP	*)	*)	–	I	106619	–	Left	**121211** MGB-L1H-ARA-L-121211

* The color can be selected using the lens set included.

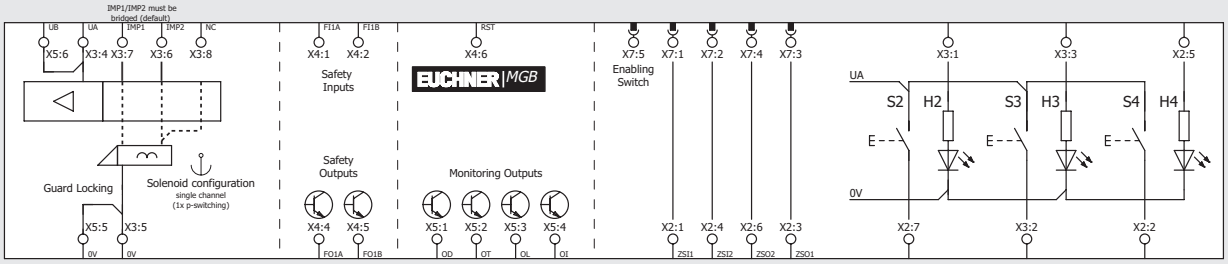
Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Block diagram and wiring diagram for controls and indicators

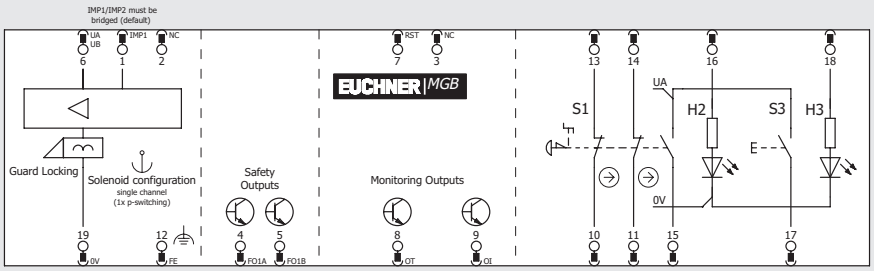
A Cable entry



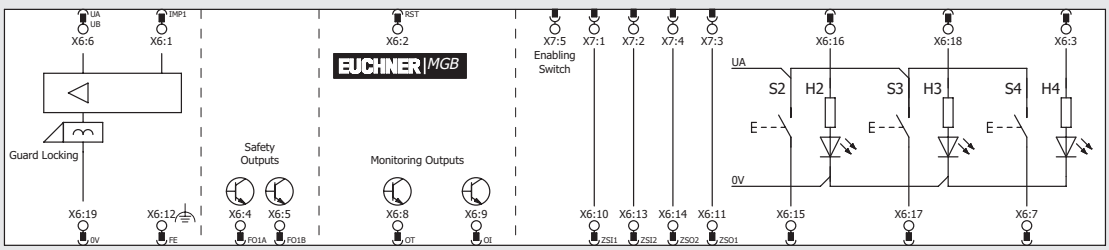
B Cable entry



C Plug connector M23



D Plug connector M23

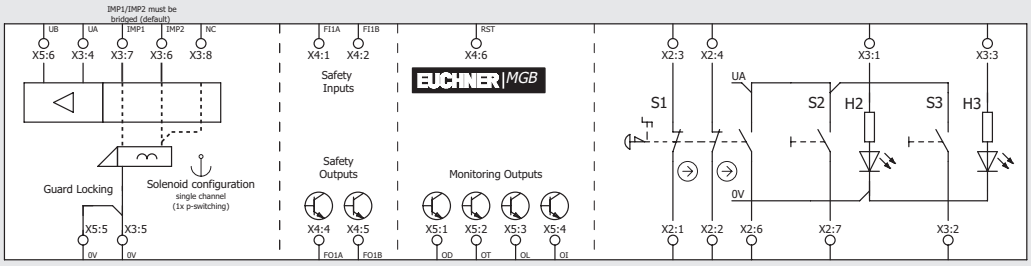


(Continued on next page)

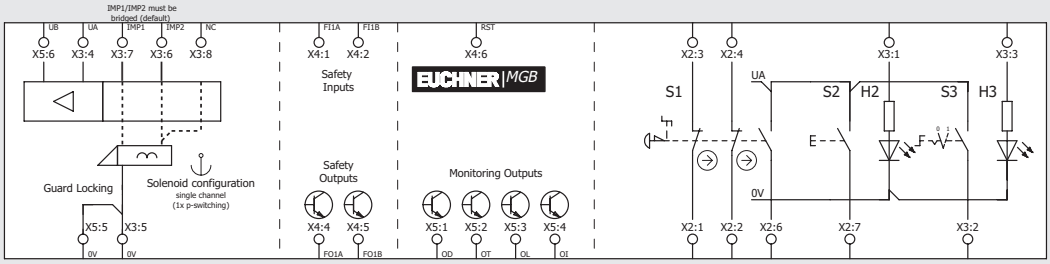
Locking sets MGB-L1-... (guard locking by spring force)
with 3 controls or indicators

Block diagram and wiring diagrams for controls and indicators (continued)

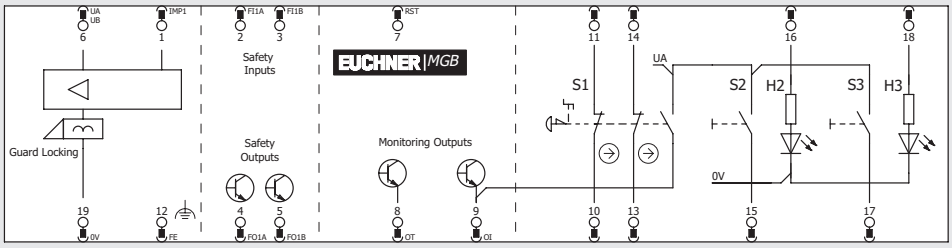
E
Cable entry



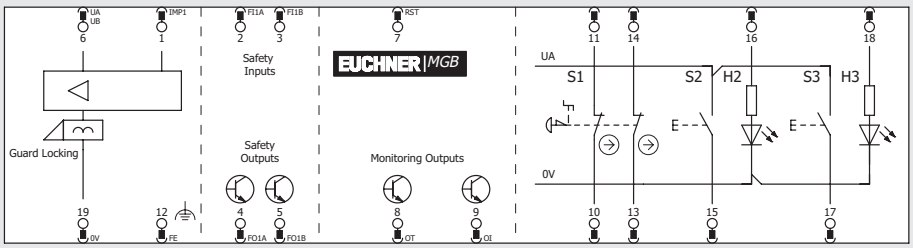
F
Cable entry



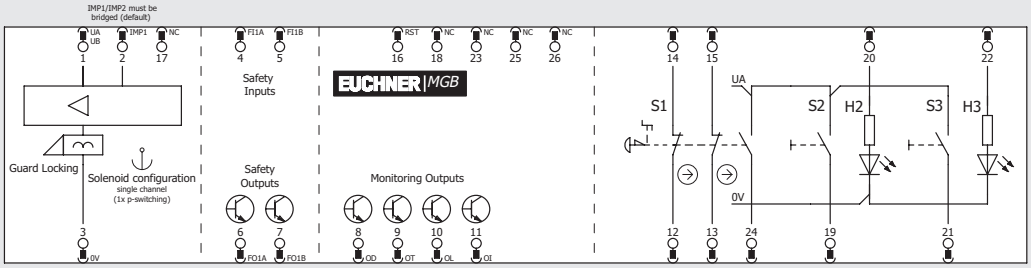
G
Plug connector M23



H
Plug connector M23

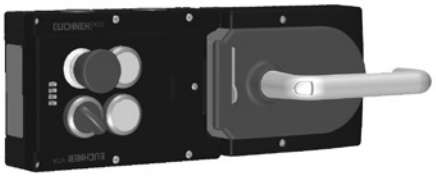


I
Plug connector RC26



Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Locking sets MGB-L1-... (guard locking by spring force)
with 4 controls or indicators



- **Can be connected in series with other AR devices (e.g. CES-AR, CET-AR and CTP-AR)**
- **With cable entry or plug connector**
- **Integrated controls and indicators**

Details

Release monitoring activated
When release monitoring is active, the system enters into a latching fault when the escape release or auxiliary release is actuated.

Emergency stop with monitoring contact
Additional normally open contact in the emergency stop, e.g. as monitoring contact for the control system.

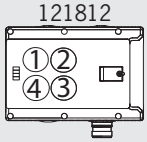
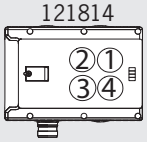
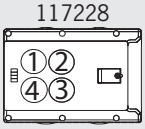
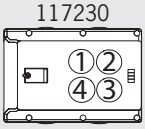
Lens set
The color of the pushbuttons can be selected using the lens set 120344 included.

Selector switch, illuminated
Selector switch with 2 positions (form V, 90°). The switch latches in both positions.

Further information

- **Dimension drawings see p. 51**
- **Technical data see p. 50**
- **Accessories and spare parts see p. 63**
- **www.euchner.com**

Ordering table

Modules in the set: Version/configuration scheme (Order no. separate module)		Locking module: S1 H1	S2 H2	S3 H3	S4 H4	Wiring diagram	Handle module (Order no. separate module)	Escape release (Order no. separate module)	Door hinge (factory setting)	Ordering data, set: Order no./item
AP	121812  Release monitoring activated, incl. adhesive labels		wh	rd	gn	A	111838	106051	Right	**121813** MGB-L1HE-APA-R-121813 (Modules pre-assembled on mounting plates)
	121814  Release monitoring activated, incl. adhesive labels						111839		Left	**121815** MGB-L1HE-APA-L-121815 (Modules pre-assembled on mounting plates)
AR	117228 		gn	wh	bu	B	100464	–	Right	**117229** MGB-L1H-ARA-R-117229
	117230 						106619		Left	**117231** MGB-L1H-ARA-L-117231

* The color can be selected using the lens set included.

(Continued on next page)

Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Ordering table (continued)

Modules in the set										Ordering data, set
		Locking module					Handle module Order no. separate module	Escape release Order no. separate module	Door hinge (factory setting)	Order no./item
Version/configuration scheme Order no. separate module		S1 H1	S2 H2	S3 H3	S4 H4	Wiring diagram				
AR	121404	STOP	*)	*)	Form V 90°	C	100464	–	Right	**121405** MGB-L1H-ARA-R-121405
	121406						106619		Left	**121407** MGB-L1H-ARA-L-121407
	119923	STOP	gn	wh	bu	D	100464	–	Right	**119924** MGB-L1H-ARA-R-119924
	119925						106619		Left	**119926** MGB-L1H-ARA-L-119926

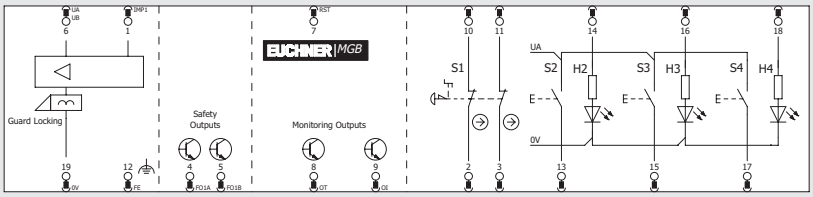
* The color can be selected using the lens set included.

Locking sets MGB-L1-... (guard locking by spring force)
with 4 controls or indicators

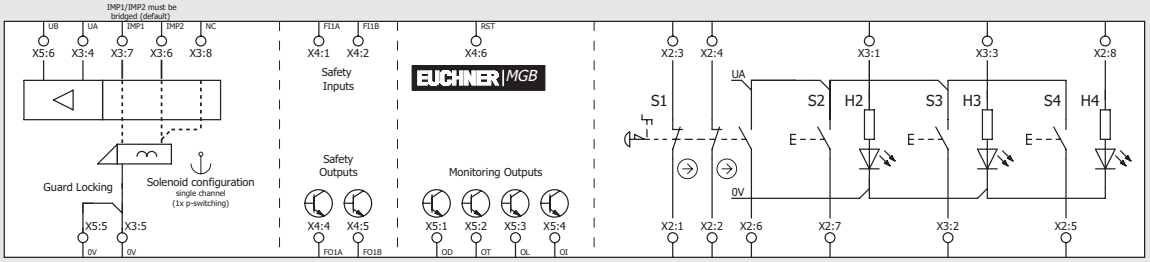
Cat. 4 PLe

Block diagram and wiring diagrams for controls and indicators

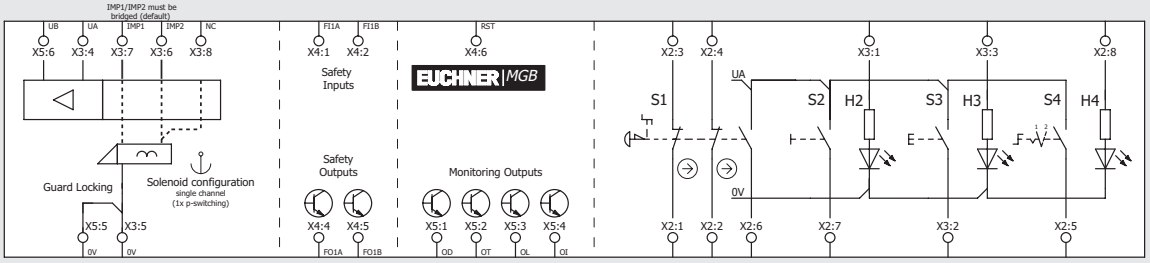
A Plug connector M23



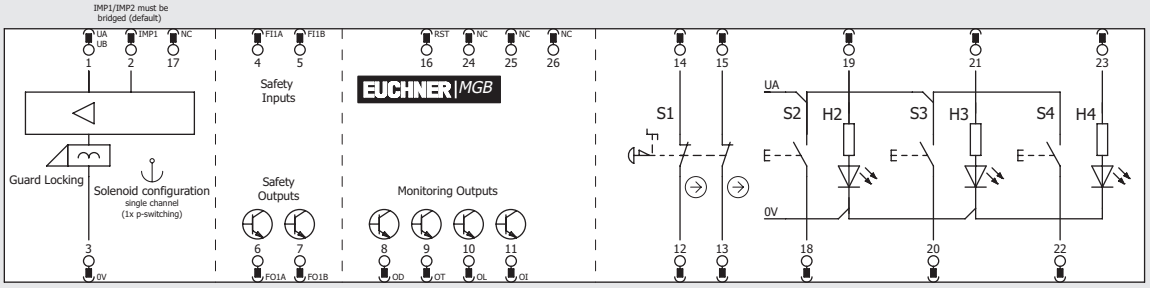
B Cable entry



C Cable entry

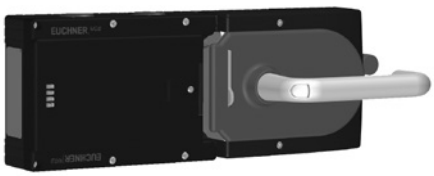


D Plug connector RC26



Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Locking sets MGB-L2-... (guard locking by solenoid force)
without control or indicator

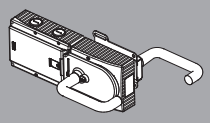
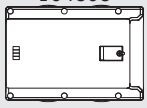
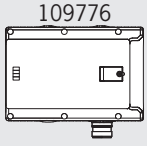
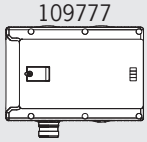


- **Can be connected in series with other AR devices (e.g. CES-AR, CET-AR and CTP-AR)**
- **With cable entry or plug connector**

Further information

- **Dimension drawings see p. 51**
- **Technical data see p. 50**
- **Accessories and spare parts see p. 63**
- **www.euchner.com**

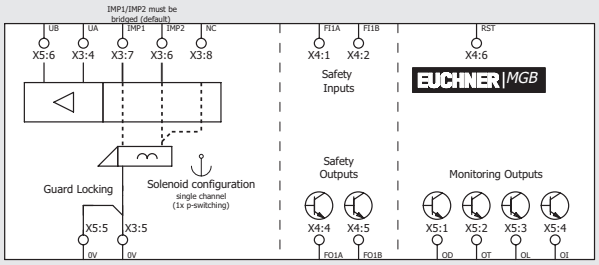
Ordering table

Modules in the set										Ordering data, set
	Locking module					Handle module Order no. separate module	Escape release Order no. separate module	Door hinge (factory setting)	
Version/configuration scheme Order no. separate module		S1 H1	S2 H2	S3 H3	S4 H4	Wiring diagram				Order no./item
AR	 104303	–	–	–	–	A	100464	100465	Right	**105788** MGB-L2HE-AR-R-105788
								–		**105786** MGB-L2H-AR-R-105786
	 109776					B				**109780** MGB-L2H-AR-R-109780
	 109777						106619		Left	**109781** MGB-L2H-AR-L-109781

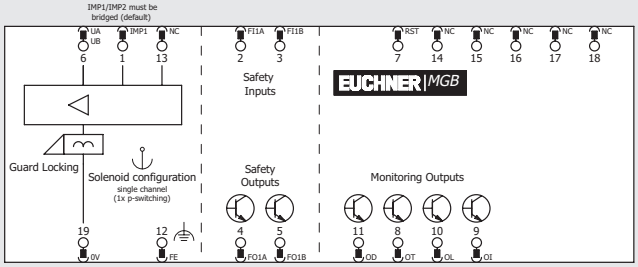
Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Block diagram

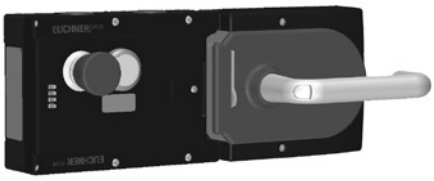
A Cable entry



B Plug connector M23



Locking sets MGB-L2-... (guard locking by solenoid force)
with 2 controls or indicators



- **Can be connected in series with other AR devices (e.g. CES-AR, CET-AR and CTP-AR)**
- **With cable entry or plug connector**
- **Integrated controls and indicators**

Details

Guard lock monitoring switched off
As the default setting on delivery, the guard lock monitoring is switched off via the internal DIP switches with these evaluation modules. Consequently, the guard locking is suitable only for process protection. Safety outputs FO1A and FO1B do not depend on the state of guard locking.

Notice: Devices affected are marked with this symbol.

Emergency stop with monitoring contact
Additional normally open contact in the emergency stop, e.g. as monitoring contact for the control system.

Lens set
The color of the pushbuttons can be selected using the lens set 120344 included.

Adhesive labels
Devices with adhesive labels have pre-formed recesses. The adhesive labels enclosed (standard size 12.5 x 27 mm) can be affixed in these recesses.

Further information

- **Dimension drawings see p. 51**
- **Technical data see p. 50**
- **Accessories and spare parts see p. 63**
- **www.euchner.com**

Ordering table

Modules in the set										Ordering data, set
Version/configuration scheme Order no. separate module	Locking module	S1 H1	S2 H2	S3 H3	S4 H4	Wiring diagram	Handle module Order no. separate module	Escape release Order no. separate module	Door hinge (factory setting)	Order no./item
AR	121024 ①② Guard lock monitoring switched off, incl. adhesive label	STOP	*)	–	–	A	100464	–	Right	**121025** MGB-L2H-ARA-R-121025
AR	121028 ②① Guard lock monitoring switched off, incl. adhesive label	STOP	*)	–	–	A	106619	–	Left	**121029** MGB-L2H-ARA-L-121029
AR	121064 ② ③	–	*)	*)	–	B	100464	–	Right	**121065** MGB-L2H-ARA-R-121065
AR	121064 ② ③	–	*)	*)	–	B	100464	100465	Right	**121066** MGB-L2HE-ARA-R-121066
AR	121070 ② ③	–	*)	*)	–	B	106619	–	Left	**121071** MGB-L2H-ARA-L-121071
AR	121070 ② ③	–	*)	*)	–	B	106619	100465	Left	**121072** MGB-L2HE-ARA-L-121072

* The color can be selected using the lens set included.

(Continued on next page)

Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Ordering table (continued)

Modules in the set										Ordering data, set
		Locking module						Handle module Order no. separate module	Escape release Order no. separate module	Door hinge (factory setting)	
Version/configuration scheme Order no. separate module		S1 H1	S2 H2	S3 H3	S4 H4	Wiring diagram					Order no./item
AR	121172 Incl. adhesive labels	–	*)	*)	–	B		100464	–	Right	**121173** MGB-L2H-ARA-R-121173
	121174 Incl. adhesive labels							106619		Left	**121175** MGB-L2H-ARA-L-121175
	121111 Incl. adhesive labels					C		100464		Right	**121112** MGB-L2H-ARA-R-121112
	121113 Incl. adhesive labels							106619		Left	**121114** MGB-L2H-ARA-L-121114

* The color can be selected using the lens set included.

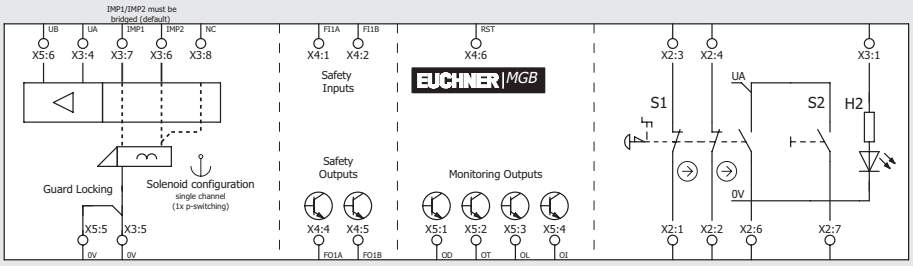
Locking sets MGB-L2-... (guard locking by solenoid force)
with 2 controls or indicators

Cat. 4 PLe

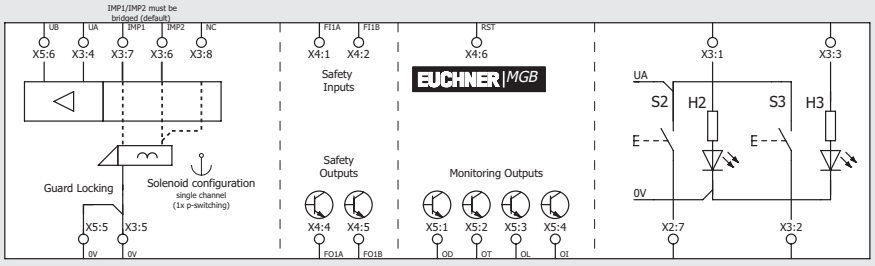
LISTED

Block diagram and wiring diagrams for controls and indicators

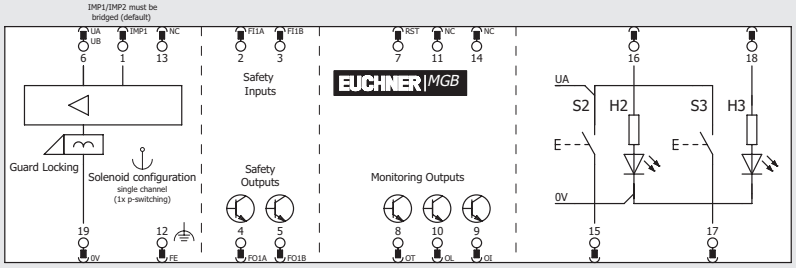
A Cable entry



B Cable entry

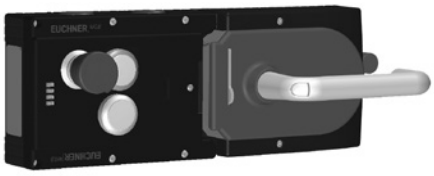


C Plug connector M23



Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Locking sets MGB-L2-... (guard locking by solenoid force)
with 3 controls or indicators



- **Can be connected in series with other AR devices (e.g. CES-AR, CET-AR and CTP-AR)**
- **With cable entry or plug connector**
- **Integrated controls and indicators**

Details

Emergency stop with monitoring contact
Additional normally open contact in the emergency stop, e.g. as monitoring contact for the control system.

Connection for enabling switch
The devices have an M12 plug connector for the direct connection of an enabling switch (e.g. ZSA, order no. 110560).

Lens set
The color of the pushbuttons can be selected using the lens set 120344 included.

Adhesive labels
Devices with adhesive labels have pre-formed recesses. The adhesive labels enclosed (standard size 12.5 x 27 mm) can be affixed in these recesses.

Machine stop
Version as emergency stop but in gray/yellow, e.g. as machine stop.
Important: Do not use as emergency stop!

Further information

- **Dimension drawings see p. 51**
- **Technical data see p. 50**
- **Accessories and spare parts see p. 63**
- **www.euchner.com**

Ordering table

Modules in the set: Version/configuration scheme (Order no. separate module)		Locking module: S1 H1	S2 H2	S3 H3	S4 H4	Wiring diagram	Handle module (Order no. separate module)	Escape release (Order no. separate module)	Door hinge (factory setting)	Ordering data, set: Order no./item
AP	110544 Plug connector M12 for enabling switch, incl. adhesive labels	–	wh	ye	bu	A	100464	–	Right	**110548** MGB-L2H-APA-R-110548
AP	110545 Plug connector M12 for enabling switch, incl. adhesive labels	–	wh	ye	bu	A	106619	–	Left	**110549** MGB-L2H-APA-L-110549
AR	121237	STOP	*)	*)	–	B	100464	–	Right	**121238** MGB-L2H-ARA-R-121238
AR	121244	STOP	*)	*)	–	B	100464	100465	Right	**121239** MGB-L2HE-ARA-R-121239
AR	121244	STOP	*)	*)	–	B	106619	–	Left	**121245** MGB-L2H-ARA-L-121245
AR	121244	STOP	*)	*)	–	B	106619	100465	Left	**121246** MGB-L2HE-ARA-L-121246

* The color can be selected using the lens set included.

(Continued on next page)

Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Ordering table (continued)

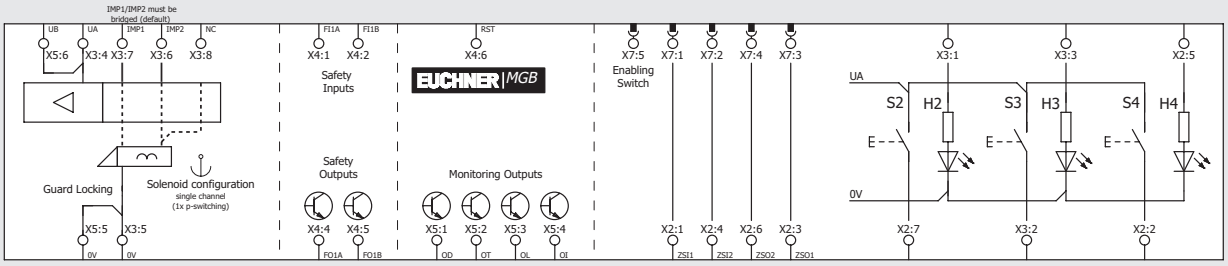
Modules in the set										Ordering data, set
		Locking module					Handle module Order no. separate module	Escape release Order no. separate module	Door hinge (factory setting)	Order no./item
Version/configuration scheme Order no. separate module		S1 H1	S2 H2	S3 H3	S4 H4	Wiring diagram				
AR	121257 ①②③ Incl. adhesive labels	STOP	*)	*)	–	B	100464	–	Right	**121258** MGB-L2H-ARA-R-121258
	121263 ②①③ Incl. adhesive labels						106619		Left	**121264** MGB-L2H-ARA-L-121264
	110708 ①②③ Incl. adhesive labels	STOP	ye	wh	–	C	100464	–	Right	**110615** MGB-L2H-ARA-R-110615
	110709 ②①③ Incl. adhesive labels						106619		Left	**110616** MGB-L2H-ARA-L-110616
	121190 ①②③ Incl. adhesive labels	STOP	*)	*)	–	D	100464	100465	Right	**121191** MGB-L2HE-ARA-R-121191
	121194 ②①③ Incl. adhesive labels						106619		Left	**121195** MGB-L2HE-ARA-L-121195
	111923 ①②③		gn	rd	–	E	100464	–	Right	**111924** MGB-L2H-ARA-R-111924
	111925 ②①③						106619		Left	**111926** MGB-L2H-ARA-L-111926

* The color can be selected using the lens set included.

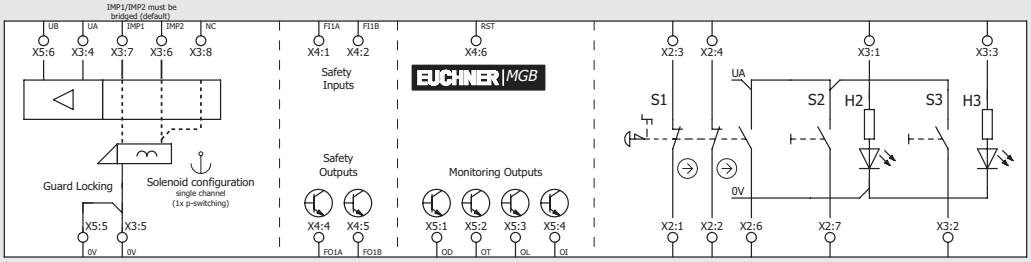
Locking sets MGB-L2-... (guard locking by solenoid force)
with 3 controls or indicators

Block diagram and wiring diagrams for controls and indicators

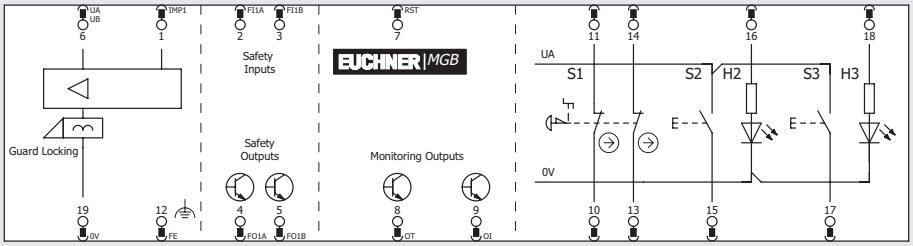
A Cable entry



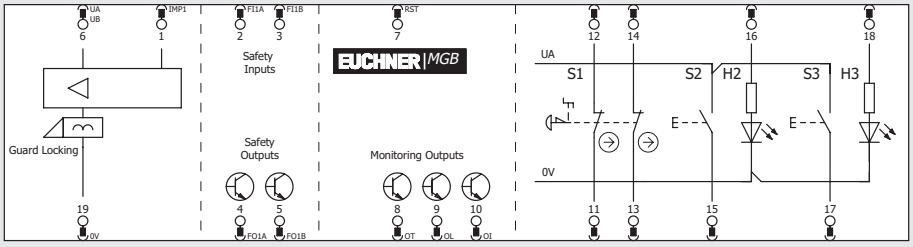
B Cable entry



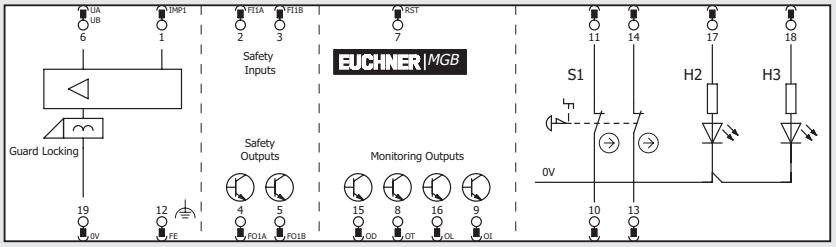
C Plug connector M23



D Plug connector M23

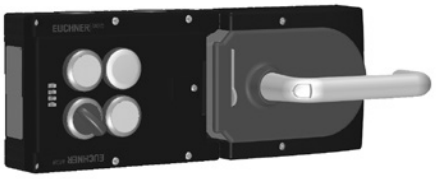


E Plug connector M23



Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Locking sets MGB-L2-... (guard locking by solenoid force)
with 4 controls or indicators



- **Can be connected in series with other AR devices (e.g. CES-AR, CET-AR and CTP-AR)**
- **With cable entry or plug connector**
- **Integrated controls and indicators**

Details

Lens set
The color of the pushbuttons can be selected using the lens set 120344 included.

Adhesive labels
Devices with adhesive labels have pre-formed recesses. The adhesive labels enclosed (standard size 12.5 x 27 mm) can be affixed in these recesses.

Key-operated switch form V
Form V, 40° angle of rotation with 2 positions. The key latches in position 0 and can be removed in position 0.

Selector switch
Selector switch with 2 positions (form V, 90°). The switch latches in both positions.

Further information

- **Dimension drawings see p. 51**
- **Technical data see p. 50**
- **Accessories and spare parts see p. 63**
- **www.euchner.com**

Ordering table

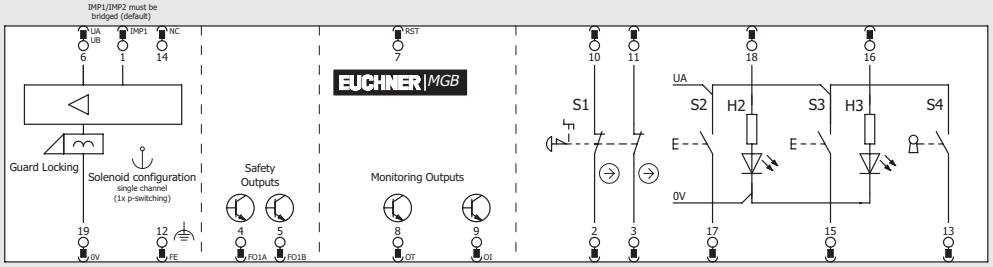
Modules in the set										Ordering data, set
	Locking module						Handle module Order no. separate module	Escape release Order no. separate module	Door hinge (factory setting)	Order no./item
Version/configuration scheme Order no. separate module		S1 H1	S2 H2	S3 H3	S4 H4	Wiring diagram				
AP	120599 ①② ④③ Incl. adhesive labels IP 54	STOP	*)	*)	Form V 40°	A	111157	100465	Right	**120600** MGB-L2HE-APA-R-120600
AP	120601 ②① ③④ Incl. adhesive labels IP 54	STOP	*)	*)	Form V 40°	A	111158	100465	Left	**120602** MGB-L2HE-APA-L-120602
AR	121397 ①② ④③	*)	ye	*)	Form V 90°	B	100464	–	Right	**121398** MGB-L2H-ARA-R-121398
AR	121399 ①② ④③	*)	ye	*)	Form V 90°	B	106619	–	Left	**121400** MGB-L2H-ARA-L-121400

* The color can be selected using the lens set included.

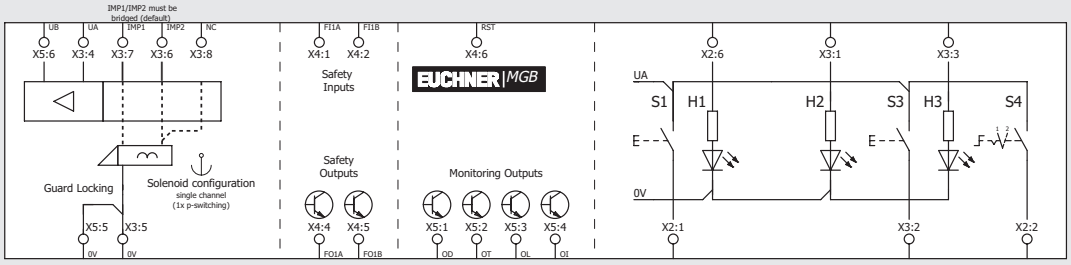
Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Block diagram and wiring diagrams for controls and indicators

A Plug connector M23



B Cable entry



Technical data

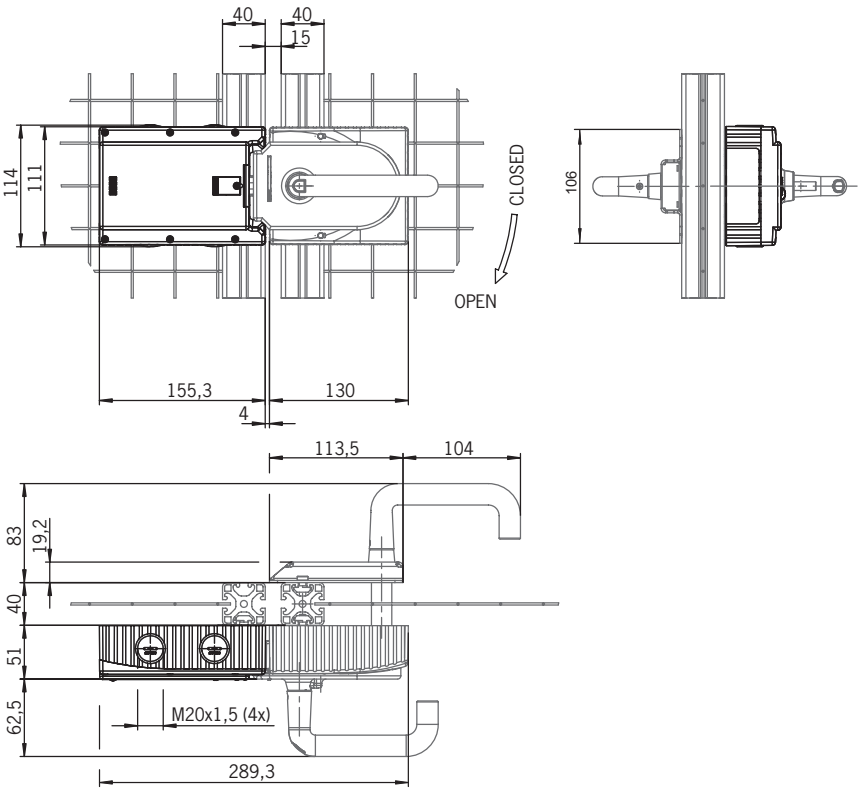
Parameter	Value	Unit
Housing material	Fiber glass reinforced plastic die-cast zinc, nickel-plated Stainless steel	
Dimensions	See dimension drawing	
Weight Locking module Handle module Escape release	 0.75 1.00 0.50	kg
Ambient temperature at U_B = DC 24 V	-20 ... +55	°C
Degree of protection Cover not populated/populated with pushbuttons/ indicators Cover populated with key-operated switch	 IP 65 IP 54	
Safety class	III	
Degree of contamination	3	
Installation position	Any	
Locking force F_{zh} in accordance with GS-ET-19	2000	N
Connection	4 cable entries M20x1.5 or plug connector	
Conductor cross-section (rigid/flexible) - With ferrule according to DIN 46 228/1 - With ferrule with collar according to DIN 46228/1	0.13 ... 1.5 (AWG 24 ... AWG 16) 0.25 ... 1.5 0.25 ... 0.75	mm^2
Operating voltage U_B (reverse polarity protected, regulated, residual ripple < 5%)	24 +10% / -15% (PELV)	V DC
Auxiliary voltage U_A (reverse polarity protected, regulated, residual ripple < 5 %)	24 +10% / -15% (PELV)	V DC
Current consumption I_{UB} (no load on any outputs)	80	mA
Current consumption I_{UA} - With energized guard locking solenoid and unloaded outputs OI, OL, OT and OD - Pushbutton S (unloaded, per LED)	 350 5	mA
External fuse	See operating instructions	
Safety outputs FO1A/FO1B	Semiconductor outputs, p-switching, short circuit-proof	
Test duration after power on	AR < 1000 / AP < 300	µs
Output voltage U_{FO1A} / U_{FO1B} [1] HIGH U_{FO1A} / U_{FO1B} LOW U_{FO1A} / U_{FO1B}	 U_B-2V ... U_B 0 ... 1	 V DC
Switching current per safety output	1 ... 200	mA
Utilization category according to EN IEC 60947-5-2	DC-13 24 V 200 mA Caution: outputs must be protected with a free-wheeling diode in case of inductive loads.	
Monitoring outputs - Output voltage [1] - Max. load	p-switching, short circuit-proof U_A - 2V ... U_A Max. 50	 mA
Rated insulation voltage U_i	30	V
Rated impulse withstand voltage U_{imp}	1.5	kV
Resilience to vibration	Acc. to EN IEC 60947-5-3	
Switching frequency	0.25	Hz
EMC protection requirements	Acc. to EN IEC 60947-5-3	
Reliability values acc. to EN ISO 13849-1		
Category	4	
Performance Level	PL e	
PFH_d	3.1×10^{-9} / h [2]	
Mission time	20	years
Controls and indicators		
Operating voltage	5 ... 24	V
Operating current	1 ... 100	mA
Breaking capacity max.	250	mW
Power supply LED	24	V DC

1) Values at a switching current of 50 mA without taking into account the cable length.
2) Applying the limit value from EN ISO 13849-1:2008, section 4.5.2 ($MTTF_d$ = max. 100 years), the employers' liability insurance association certifies a PFH_d of max. 2.47×10^{-8}.

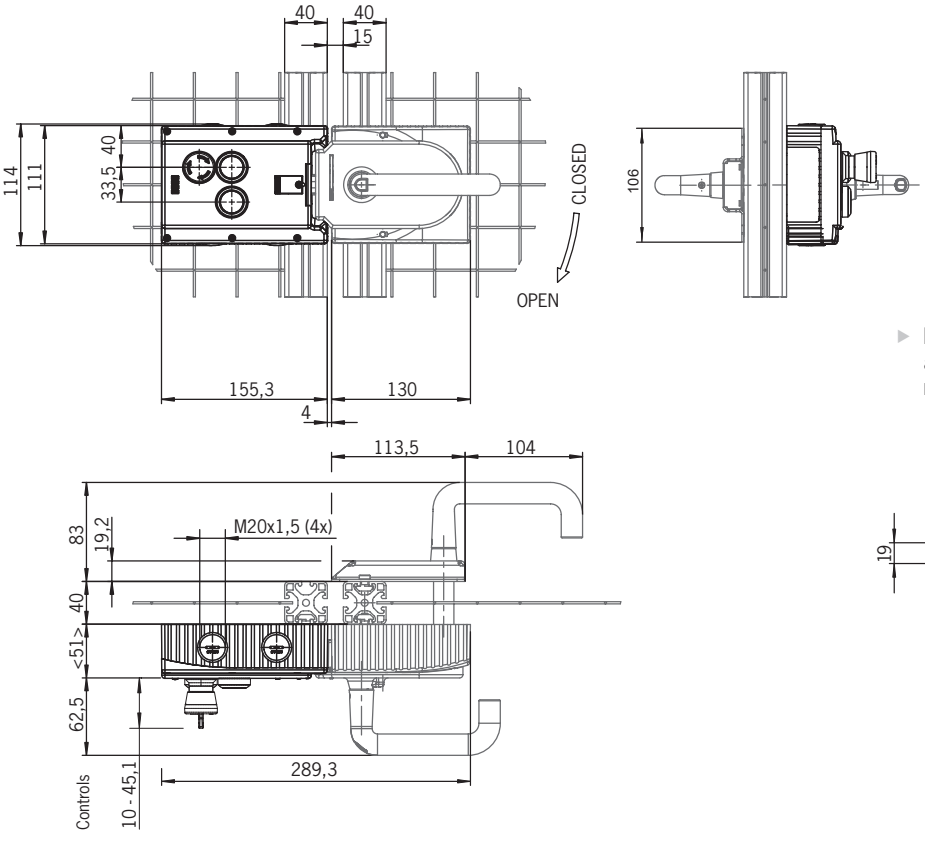
Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Dimension drawings

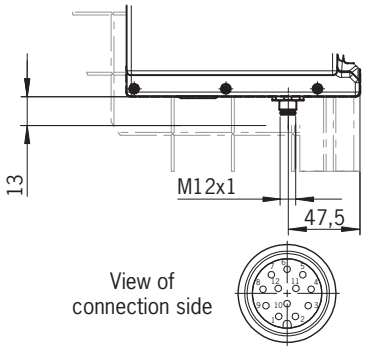
- **MGB-... without additional controls and indicators**



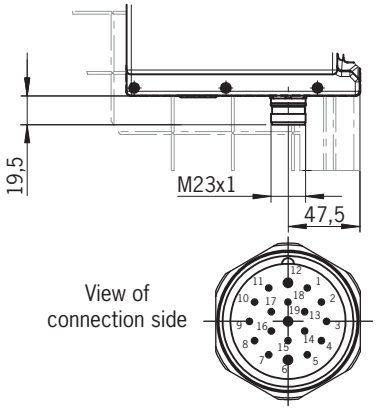
- **MGB-... with additional controls and indicators**



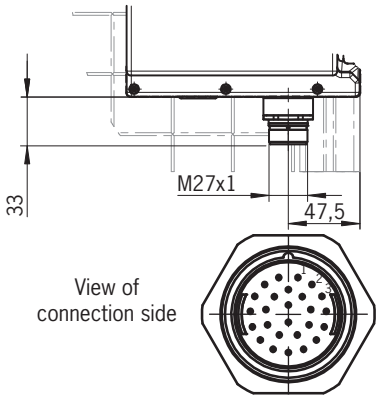
- **Plug connector M12**



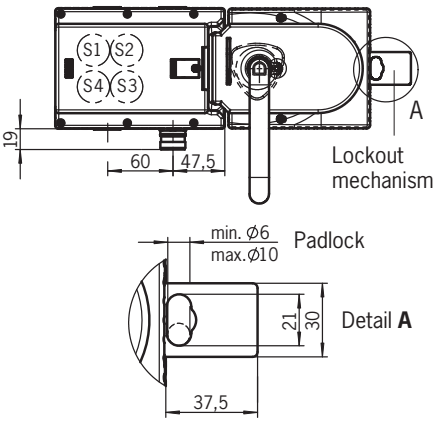
- **Plug connector M23**



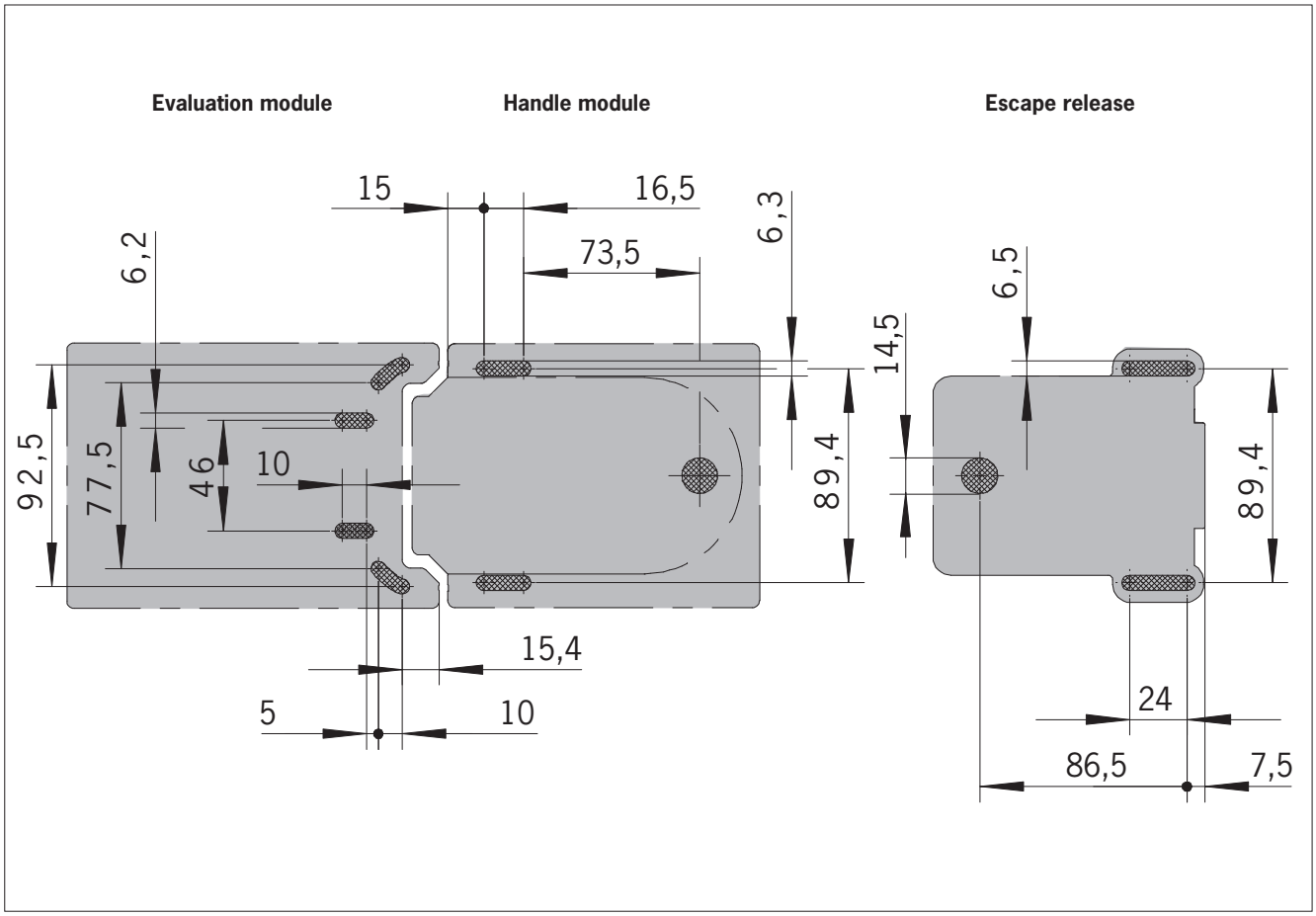
- **Plug connector RC26**



- **Dimensions with plug connector M23 and automatically extending lockout mechanism (optional)**



Drilling pattern



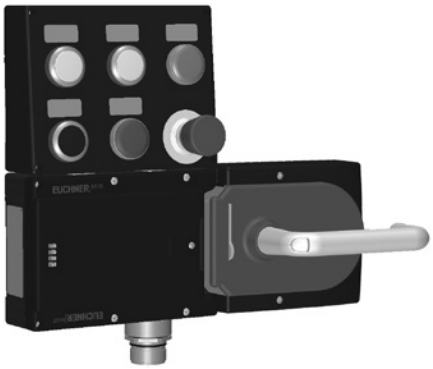
Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Complete sets system family MGB-AR with control module MGB-C

- Interlocking or guard locking with handle module
- With pushbuttons and emergency stop
- With plug connectors

Interlocking sets MGB-L0C-AR... (without guard locking) **54**
with 6 controls and indicators 54
Locking sets MGB-L1C-AR... (guard locking by spring force) **56**
with 6 controls and indicators 56
Locking sets MGB-L2C-AR... (guard locking by solenoid force) **58**
with 6 controls and indicators 58
Technical data **60**
Dimension drawings **61**

Interlocking sets MGB-L0C-AR...
with 6 controls or indicators



- **With control module MGB-C**
- **Can be connected in series with other AR devices (e.g. CES-AR, CET-AR and CTP-AR)**
- **With plug connector**

Details

Adhesive labels
Devices with adhesive labels have pre-formed recesses. The adhesive labels enclosed (standard size 12.5 x 27 mm) can be affixed in these recesses.

Emergency stop with monitoring contact
Additional normally open contact in the emergency stop, e.g. as monitoring contact for the control system.

Further information

- **Dimension drawings see p. 61**
- **Technical data see p. 60**
- **Accessories and spare parts see p. 63**
- **www.euchner.com**

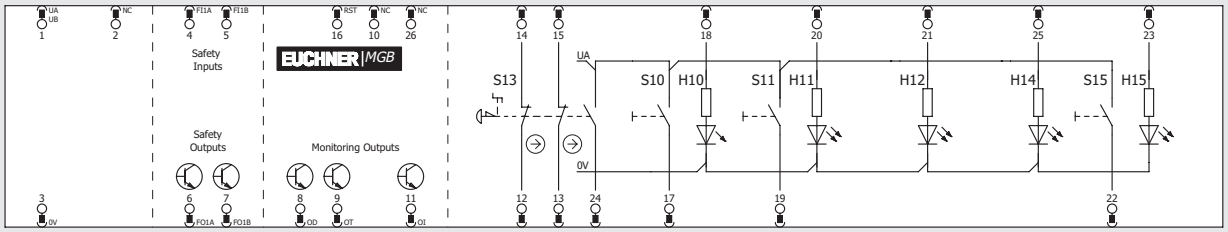
Ordering table

Modules in the set												Ordering data, set
Locking module with control module									Handle module Order no. separate module	Escape release Order no. separate module	Door hinge (factory setting)	Order no./item
Version/ configuration scheme Order no. separate module		S10 H10	S11 H11	S12 H12	S13 H13	S14 H14	S15 H15	Wiring diagram				
AR	110259 Incl. adhesive labels	wh	wh	gn	STOP	rd	bu	A	111157	–	Right	**110255** MGB-L0HC-ARA-R-110255
AR	110260 Incl. adhesive labels	wh	wh	gn	STOP	rd	bu	A	111158	–	Left	**110256** MGB-L0HC-ARA-L-110256

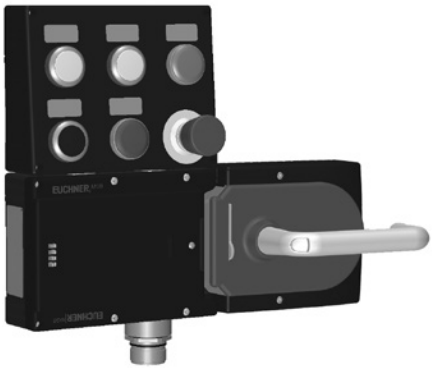
Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Block diagram

A Plug connector RC26



Locking sets MGB-L1C-AR... (guard locking by spring force)
with 6 controls or indicators



- **With control module MGB-C**
- **Can be connected in series with other AR devices (e.g. CES-AR, CET-AR and CTP-AR)**
- **With plug connector**

Details

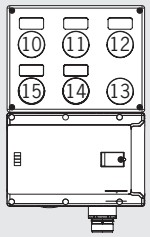
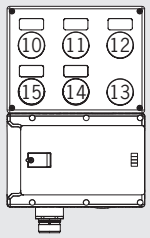
Adhesive labels
Devices with adhesive labels have pre-formed recesses. The adhesive labels enclosed (standard size 12.5 x 27 mm) can be affixed in these recesses.

Emergency stop with monitoring contact
Additional normally open contact in the emergency stop, e.g. as monitoring contact for the control system.

Further information

- **Dimension drawings see p. 61**
- **Technical data see p. 60**
- **Accessories and spare parts see p. 63**
- **www.euchner.com**

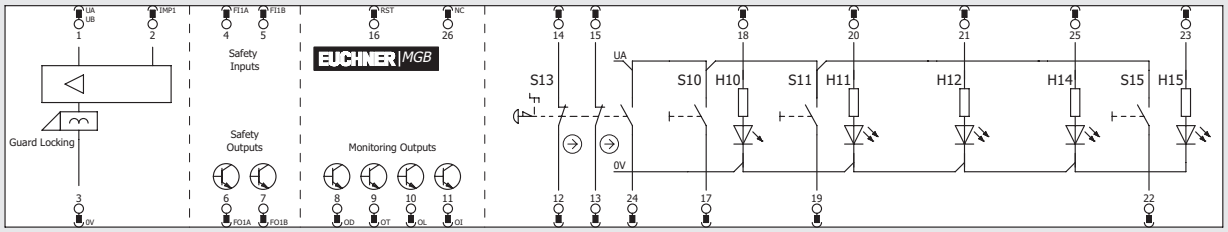
Ordering table

Modules in the set												Ordering data, set
Locking module with control module									Handle module Order no. separate module	Escape release Order no. separate module	Door hinge (factory setting)	Order no./item
Version/ configuration scheme Order no. separate module		S10 H10	S11 H11	S12 H12	S13 H13	S14 H14	S15 H15	Wiring diagram				
AR	109798  Incl. adhesive labels	wh	wh	gn	STOP	rd	bu	A	111157	–	Right	**109806** MGB-L1HC-ARA-R-109806
AR	109799  Incl. adhesive labels	wh	wh	gn	STOP	rd	bu	A	111158	–	Left	**109807** MGB-L1HC-ARA-L-109807

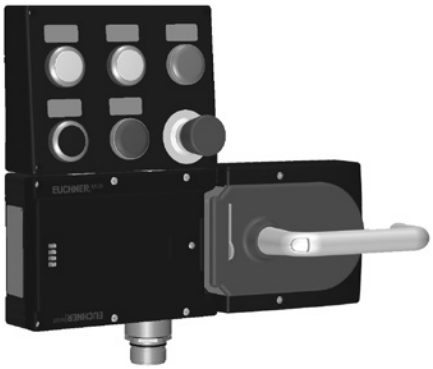
Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Block diagram

A Plug connector RC26



Locking sets MGB-L2C-AR... (guard locking by solenoid force)
with 6 controls or indicators



- **With control module MGB-C**
- **Can be connected in series with other AR devices (e.g. CES-AR, CET-AR and CTP-AR)**
- **With plug connector**

Details

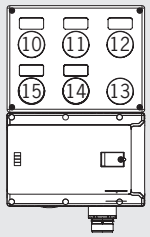
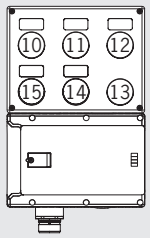
Adhesive labels
Devices with adhesive labels have pre-formed recesses. The adhesive labels enclosed (standard size 12.5 x 27 mm) can be affixed in these recesses.

Emergency stop with monitoring contact
Additional normally open contact in the emergency stop, e.g. as monitoring contact for the control system.

Further information

- **Dimension drawings see p. 61**
- **Technical data see p. 60**
- **Accessories and spare parts see p. 63**
- **www.euchner.com**

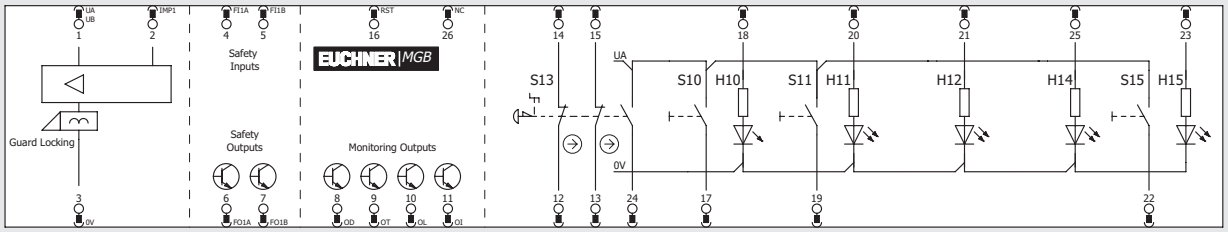
Ordering table

Modules in the set												Ordering data, set
	Locking module with control module								Handle module Order no. separate module	Escape release Order no. separate module	Door hinge (factory setting)	Order no./item
Version/ configuration scheme Order no. separate module		S10 H10	S11 H11	S12 H12	S13 H13	S14 H14	S15 H15	Wiring diagram				
AR	112529  Incl. adhesive labels	wh	wh	gn	STOP	rd	bu	A	111157	–	Right	**112531** MGB-L2HC-ARA-R-112531
AR	112530  Incl. adhesive labels	wh	wh	gn	STOP	rd	bu	A	111158	–	Left	**112532** MGB-L2HC-ARA-L-112532

Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Block diagram

A Plug connector RC26



Technical data

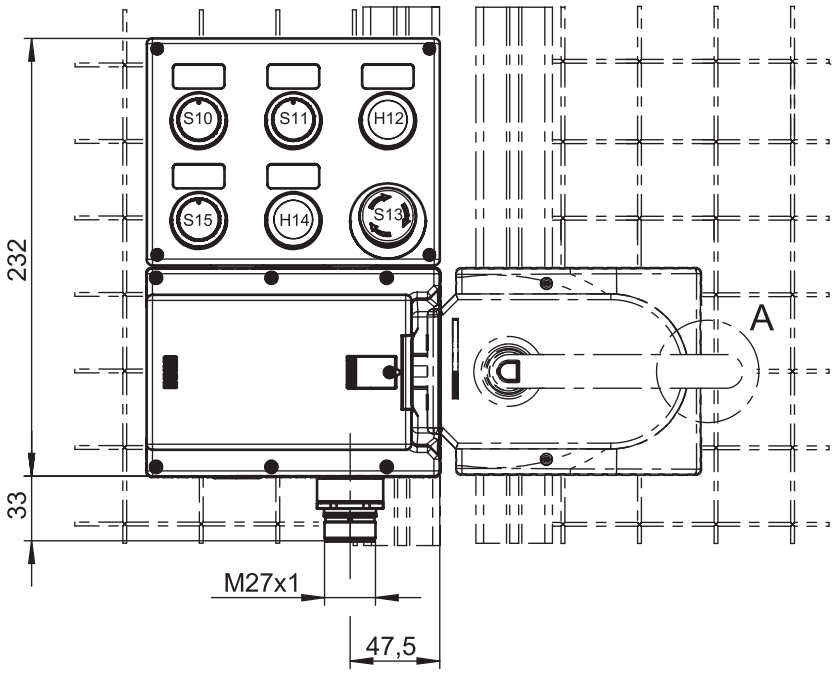
Parameter	Value	Unit
Housing material	Fiber glass reinforced plastic Die-cast zinc, nickel-plated Stainless steel	
Dimensions	See dimension drawing	
Weight Locking module Handle module Escape release	 0.75 1.00 0.50	kg
Ambient temperature at U_B = DC 24 V	-20 ... +55	°C
Degree of protection Cover not populated/populated with pushbuttons/ indicators Cover populated with key-operated switch	 IP 65 IP 54	
Safety class	III	
Degree of contamination	3	
Installation position	Any	
Locking force F_{zh} in accordance with GS-ET-19	2000	N
Connection	4 cable entries M20x1.5 or plug connector	
Conductor cross-section (rigid/flexible) - With ferrule according to DIN 46 228/1 - With ferrule with collar according to DIN 46228/1	0.13 ... 1.5 (AWG 24 ... AWG 16) 0.25 ... 1.5 0.25 ... 0.75	mm^2
Operating voltage U_B (reverse polarity protected, regulated, residual ripple < 5%)	24 +10% / -15% (PELV)	V DC
Auxiliary voltage U_A (reverse polarity protected, regulated, residual ripple < 5 %)	24 +10% / -15% (PELV)	V DC
Current consumption I_{UB} (no load on any outputs)	80	mA
Current consumption I_{UA} - With energized guard locking solenoid and unloaded outputs OI, OL, OT and OD - Pushbutton S (unloaded, per LED)	 350 5	mA
External fuse	See operating instructions	
Safety outputs FO1A/FO1B	Semiconductor outputs, p-switching, short circuit-proof	
Test duration after power on	AR < 1000 / AP < 300	µs
Output voltage U_{FO1A} / U_{FO1B} [1] HIGH U_{FO1A} / U_{FO1B} LOW U_{FO1A} / U_{FO1B}	 U_B-2V ... U_B 0 ... 1	 V DC
Switching current per safety output	1 ... 200	mA
Utilization category according to EN IEC 60947-5-2	DC-13 24 V 200 mA Caution: outputs must be protected with a free-wheeling diode in case of inductive loads.	
Monitoring outputs - Output voltage [1] - Max. load	p-switching, short circuit-proof U_A- 2V ... U_A Max. 50	 mA
Rated insulation voltage U_i	30	V
Rated impulse withstand voltage U_{imp}	1.5	kV
Resilience to vibration	Acc. to EN IEC 60947-5-3	
Switching frequency	0.25	Hz
EMC protection requirements	Acc. to EN IEC 60947-5-3	
Reliability values acc. to EN ISO 13849-1		
Category	4	
Performance Level	PL e	
PFH_d	3.1 x 10^{-9} / h [2]	
Mission time	20	years
Controls and indicators		
Operating voltage	5 ... 24	V
Operating current	1 ... 100	mA
Breaking capacity max.	250	mW
Power supply LED	24	V DC

1) Values at a switching current of 50 mA without taking into account the cable length.
2) Applying the limit value from EN ISO 13849-1:2008, section 4.5.2 ($MTTF_d$ = max. 100 years), the employers' liability insurance association certifies a PFH_d of max. 2.47 x 10^{-8}.

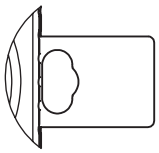
Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

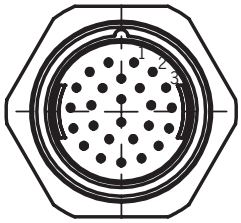
Dimension drawings

▸ **MGB-L.HC-AR**



Detail A

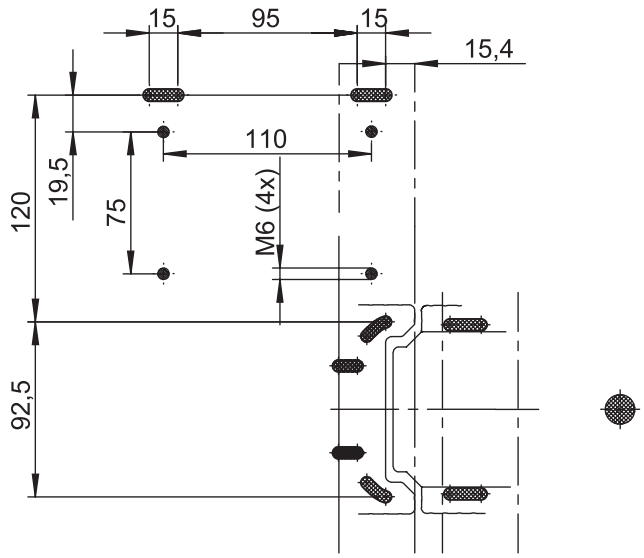




Plug connector RC26

View of connection side

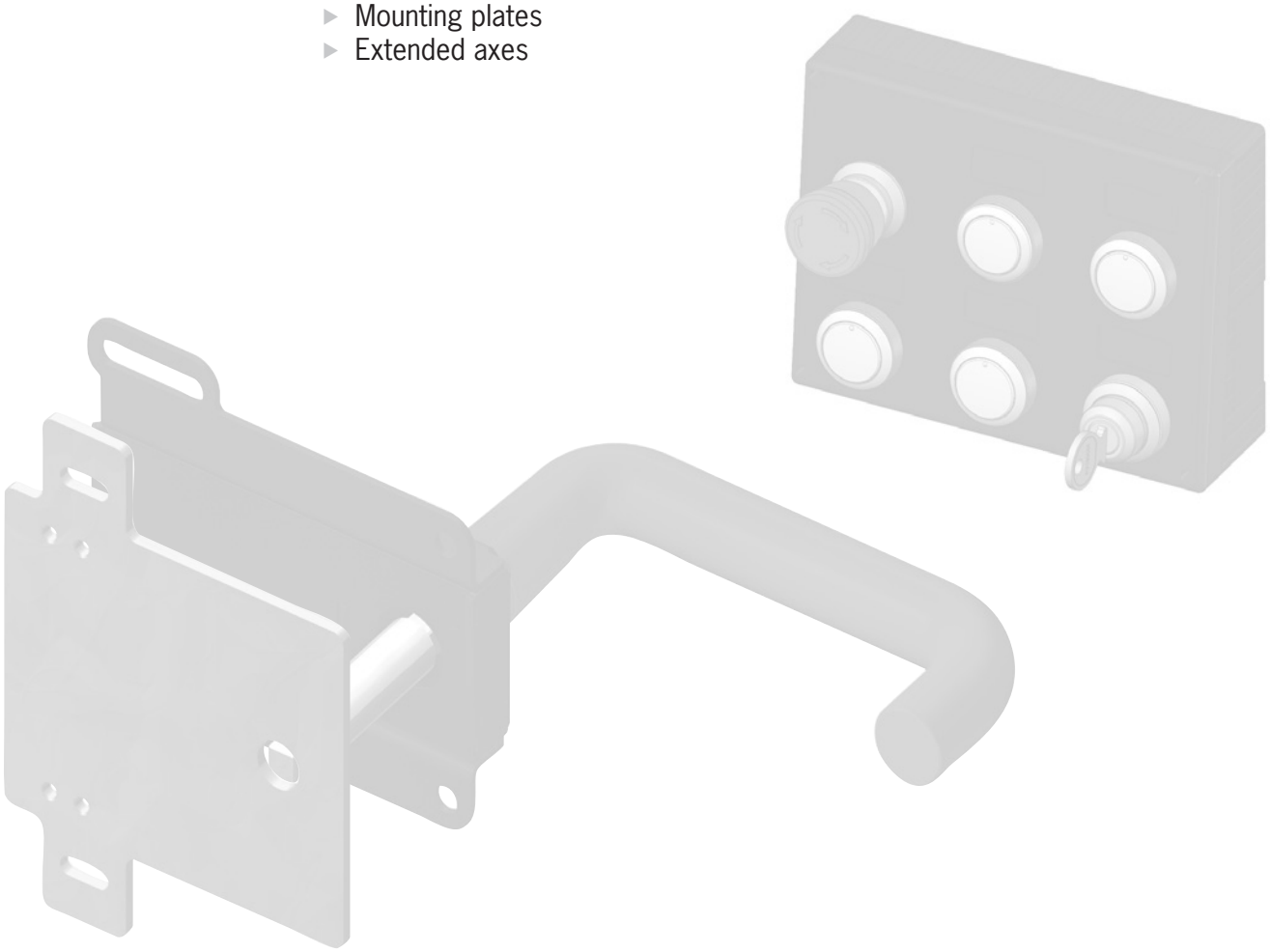
Drilling pattern



Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Accessories and spare parts for all MGB families

- Plug connectors and cables
- Emergency unlocking for auxiliary release
- Adhesive labels
- Mounting plates
- Extended axes



Handle module MGB-H-...	**64 - 66**
Escape release MGB-E...	**68**
Emergency unlocking for auxiliary release/adhesive labels	**69**
Lens sets	**70**
Mounting plates for modules MGB-...-AR and MGB-...-AP	**71 - 72**
Plug connectors/ connection cables	**73 - 76**
Control modules MGB-C	**77 - 83**
Dimension drawing and configuration example	79
Overview, controls and indicators	80
Combination options	81
Spare parts and accessories	82
Technical data	83

Handle module MGB-H-... (from V3.0.0)

- **Intelligent bolt tongue with transponder**
- **Fold-out lockout mechanism**
- **Door handle**

Bolt tongue
The bolt tongue is reliably detected by transponder as soon as it is inserted in the evaluation module.

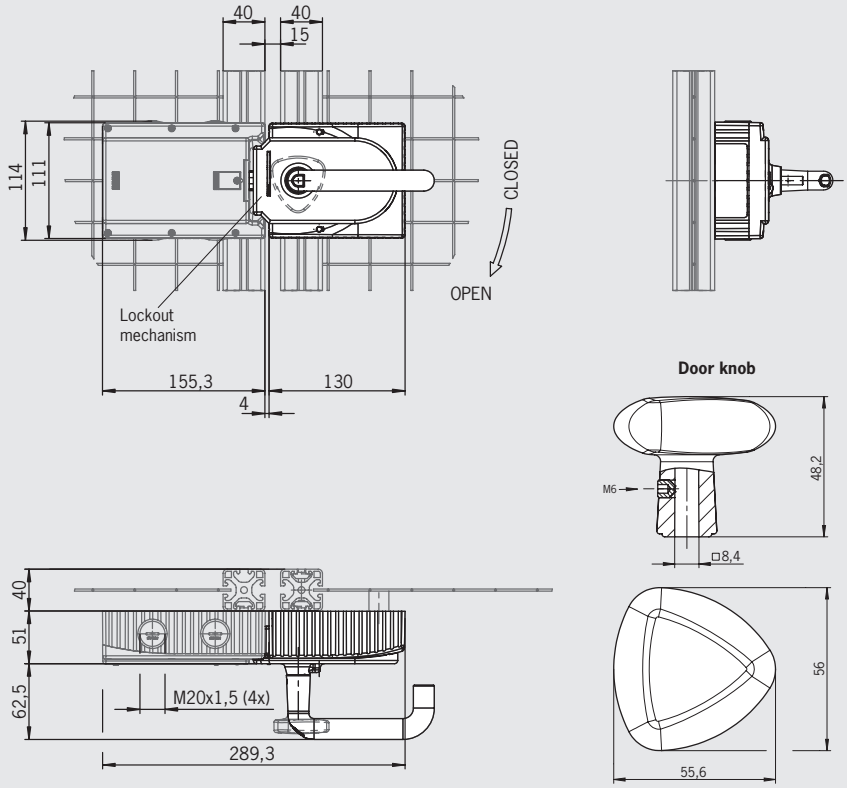
Lockout mechanism (fold-out)
For cleaning and service on the machine, the bolt tongue can be locked with max. 3 padlocks. The lockout mechanism is simply folded out and prevents the operation of the handle.

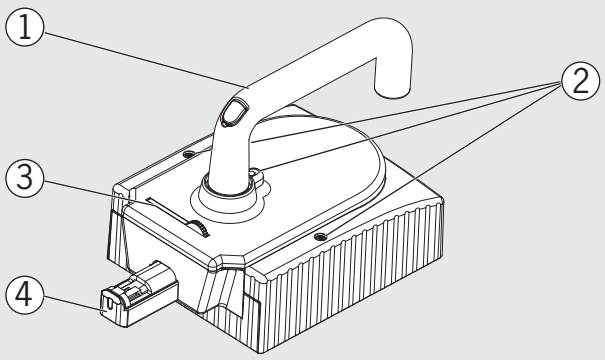
Door handle
The MGB has a robust door handle that can be rotated in 90° steps to suit all installations.
The actuating direction can be changed very easily for doors hinged on the left or right.

Door knob
As an alternative to the door handle, the handle module can also be equipped with a door knob.

Handle module MGB-H-... (from V3.0.0)
with fold-out lockout mechanism

Dimension drawing (diagram shows door hinged on the right)





Scope of delivery:
① Door handle
② Locking pins for housing cover and handle adjustment
③ Lockout mechanism
④ Bolt tongue

Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Ordering table handle module from V3.0.0

Series	Version	Order no./item
MGB-H... Handle module right	With door handle and **fold-out** lockout mechanism, black housing with red cover	**100464** MGB-H-AA1A1-R-100464
	With door handle and **fold-out** lockout mechanism, **can be locked using escape release**, black housing with red cover	**114655** MGB-H-AA1B1-R-114655
	With door knob and **fold-out** lockout mechanism, black housing with red cover	**113201** MGB-H-AA1A7-R-113201
MGB-H... Handle module left	With door handle and **fold-out** lockout mechanism, black housing with red cover	**106619** MGB-H-AA1A1-L-106619
	With door handle and **fold-out** lockout mechanism, **can be locked using escape release**, black housing with red cover	**114656** MGB-H-AA1B1-L-114656
	With door knob and **fold-out** lockout mechanism, black housing with red cover	**121478** MGB-H-AA1A7-L-121478
Door handle Aluminum, silver anodized	From MGB-H V3.0.0	**123926** MGB-A-DOORHANDLE-S2-123926
Door knob Aluminum, silver anodized	From MGB-H V3.0.0	**124030** MGB-A-DOORKNOB-S2-124030

Ordering table accessories for handle module up to V2.0.0

Series	Version	Order no./item
Door handle Aluminum, silver anodized	Up to MGB-H V2.0.0	**110277** MGB-A-DOORHANDLE-S-110277
Door knob Aluminum, silver anodized	Up to MGB-H V2.0.0	**111460** MGB-A-DOORKNOB-111460

Handle module MGB-H... with automatically extending lockout mechanism (from V3.0.0)

- **Intelligent bolt tongue with transponder**
- **Fold-out lockout mechanism (as on standard version)**
- **Second automatically extending lockout mechanism**
- **Door handle**

Bolt tongue
The bolt tongue is reliably detected by transponder as soon as it is inserted in the evaluation module.

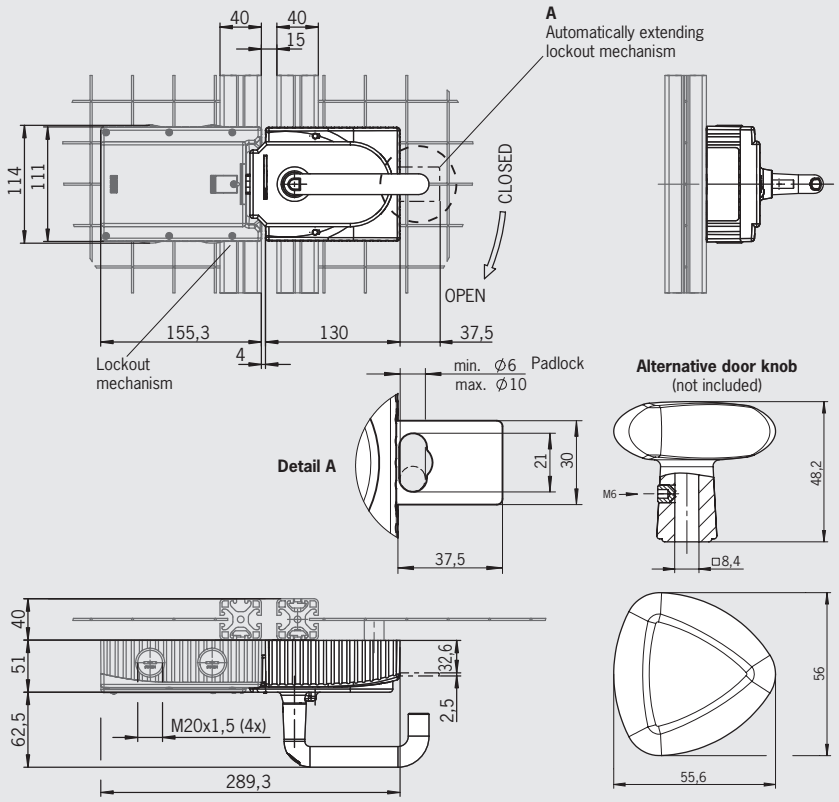
Lockout mechanism (automatically extending and fold-out)
For cleaning and service on the machine, the bolt tongue can be locked with max. 3 padlocks. The lockout mechanism extends automatically on the actuation of the handle and prevents the operation of the handle in the safe state. In addition, the fold-out lockout mechanism can be used.

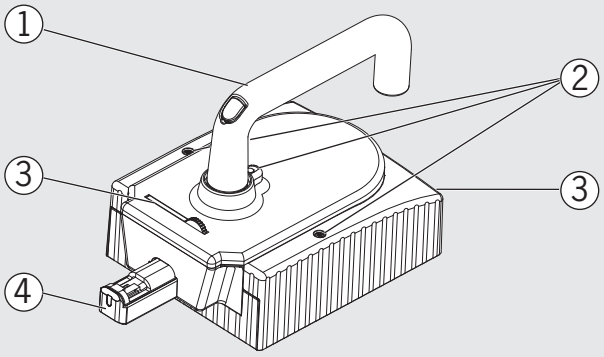
Door handle
The MGB has a robust door handle that can be rotated in 90° steps to suit all installations.
The actuating direction can be changed very easily for doors hinged on the left or right.

Door knob
As an alternative to the door handle, the handle module can also be equipped with a door knob.

Handle module MGB-H-... (from V3.0.0)
with automatically extending lockout mechanism

Dimension drawing (diagram shows door hinged on the right)





Scope of delivery:
① Door handle
② Locking pins for housing cover and handle adjustment
③ Lockout mechanism
④ Bolt tongue

Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Ordering table

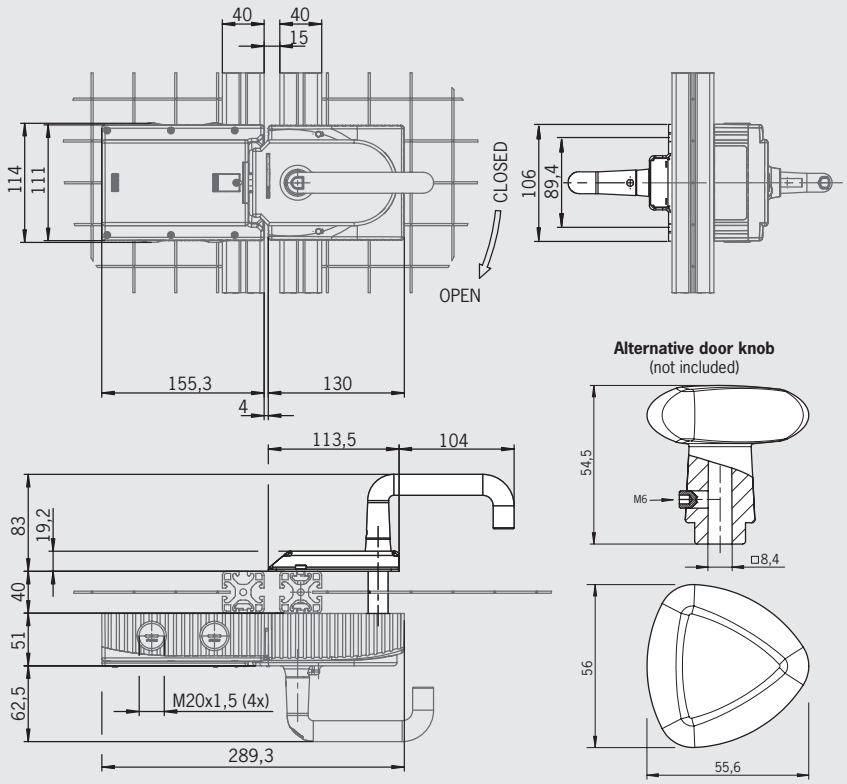
Series	Version	Order no./item
MGB-H... Handle module right	With **fold-out** and also second **automatically extending** lockout mechanism, black housing with red cover	**111157** MGB-H-AA1A3-R-111157
	With door handle and **fold-out** lockout mechanism, **can be locked using escape release**, black housing with red cover	**116813** MGB-H-AA1B2-R-116813
MGB-H... Handle module left	With **fold-out** and also second **automatically extending** lockout mechanism, black housing with red cover	**111158** MGB-H-AA1A3-L-111158
	With door handle and **fold-out** lockout mechanism, **can be locked using escape release**, black housing with red cover	**116814** MGB-H-AA1B2-L-116814
Door handle Aluminum, silver anodized	From MGB-H V3.0.0	**123926** MGB-A-DOORHANDLE-S2-123926
Door knob Aluminum, silver anodized	From MGB-H V3.0.0	**124030** MGB-A-DOORKNOB-S2-124030

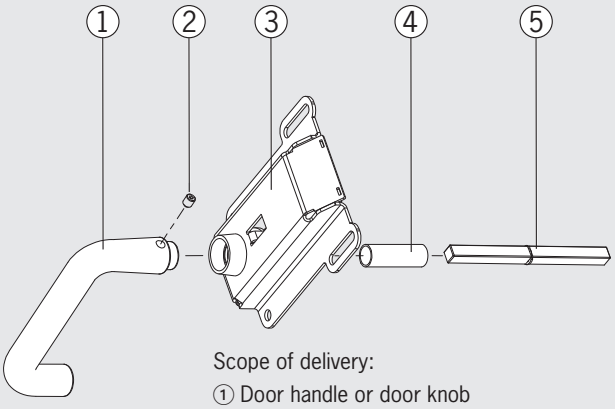
Escape release module MGB-E...

► **Door handle red**

Escape release module MGB-E...

Dimension drawing (diagram shows door hinged on the right)





Scope of delivery:
① Door handle or door knob
② Setscrew
③ Cover
④ Protective sleeve, 52 mm long
⑤ Actuation axis, 118 mm long, square drive 8x8 mm

Escape release
The safety system MGB can be equipped with an escape release module. The escape release enables people shut in to open the guard locked door from the danger zone. It is only necessary to actuate the door handle.
The actuating direction automatically adapts to the actuating direction of the handle module and does not need to be changed.
The actuation axis supplied is suitable for profiles up to 40 mm.

Extended actuation axis
Optionally, a 250-mm long actuation axis (instead of 110 mm) can be ordered for thicker doors or profiles > 40 mm.
The axis can be shortened to the required dimension.

Ordering table

Series / designation	Version	Order no./item
MGB-E... Escape release	With red handle, 110 mm long	**100465** MGB-E-A-100465
	With red knob 110 mm long	**117126** MGB-E-A7-117126
Extended actuation axis	250 mm long, square 8 x 8 mm (with protective sleeve, 182 mm long)	**106761** MGB-A-ESCAPERELEASESHAFT 250
Escape release MGB-E-A-100465 Pre-assembled on mounting plate	With red handle, 118 mm long	**106051** MGB-E-A2-106051
Door handle	Aluminum, red stove enameled	**110276** MGB-A-DOORHANDLE-R-110276
Door knob	Aluminum, red stove enameled	**114904** MGB-A-DOORKNOB-114904

Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

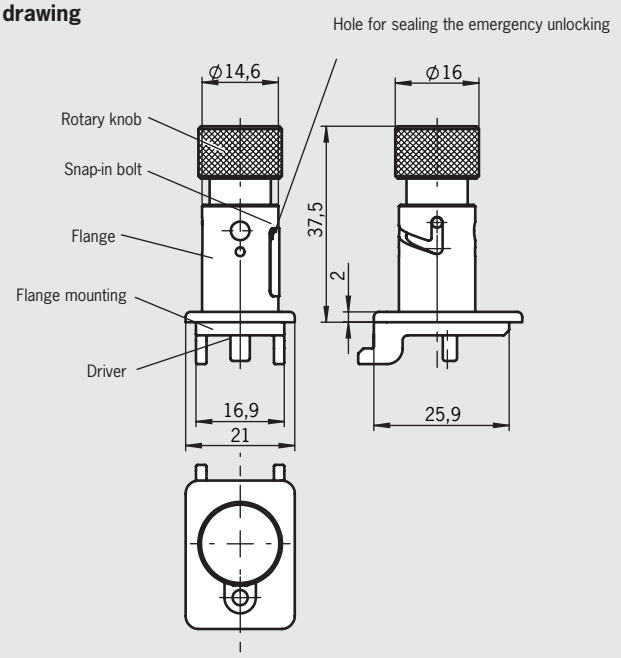
Emergency unlocking for auxiliary release/adhesive labels

▶ **Emergency unlocking**

Emergency unlocking MGB-A...

Function
The MGB can be unlocked manually using the emergency unlocking. The rotary knob is pushed and then turned by 90° to unlock. The snap-in bolt engages in the hole on the flange. To release the emergency unlocking, push the snap-in bolt inward and simultaneously turn the rotary knob back to its initial position. The emergency unlocking can be sealed in the free position.

Dimension drawing

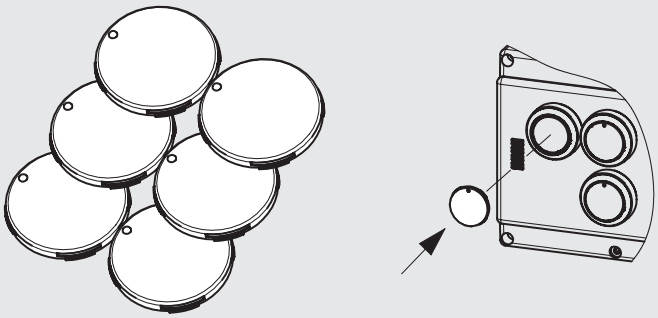


Ordering table

Series / designation	Usage/color	Order no./item
Emergency unlocking Sealable	For auxiliary release evaluation modules MGB	**112989** MGB-A-EMERGENCYRELEASE-112989
Lead seal kit	For emergency unlocking	**087256** Lead seal kit C1937
Adhesive labels Silver, blank (packaging unit 10 pcs.)	For evaluation modules MGB	**114529** MGB-A-PLATESET-NN01-114529
Screw set (packaging unit 5 pcs.)	For MGB cover	**156331** MGB-A-SCREW-156331/V5

Lens sets

Lens set



Ordering table

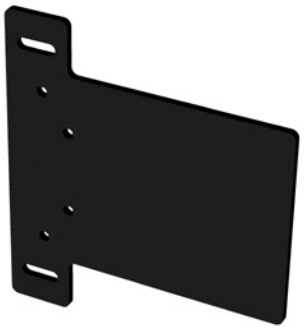
Series / designation	Usage/color		Order no./item
Lens set 3 pcs.	1 x GN ⓘ 1 x WH	1 x YE ⚠	**126158** MGB-A-LENSSET-SY03-126158
Lens sets 6 pcs.	2 x WH / 1 x BU / 1 x YE / 1 x GN / 1 x RD		**120344** MGB-A-LENSSET-0001-120344
	1 x WH / 1 x BU / 1 x YE / 1 x GN / 1 x RD / 1 x BK		**120378** MGB-A-LENSSET-0002-120378
	1 x WH 1 x GN 1 x WH	1 x WH 1 x WH 1 x WH	**120377** MGB-A-LENSSET-SY01-120377
Lens set 15 pcs.	1 x WH 1 x WH 2 x WH 1 x WH OK 1 x WH	4 x BK 1 x WH 2 x WH 1 x WH 1 x WH	**125359** MGB-A-LENSSET-SY02-125359

Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

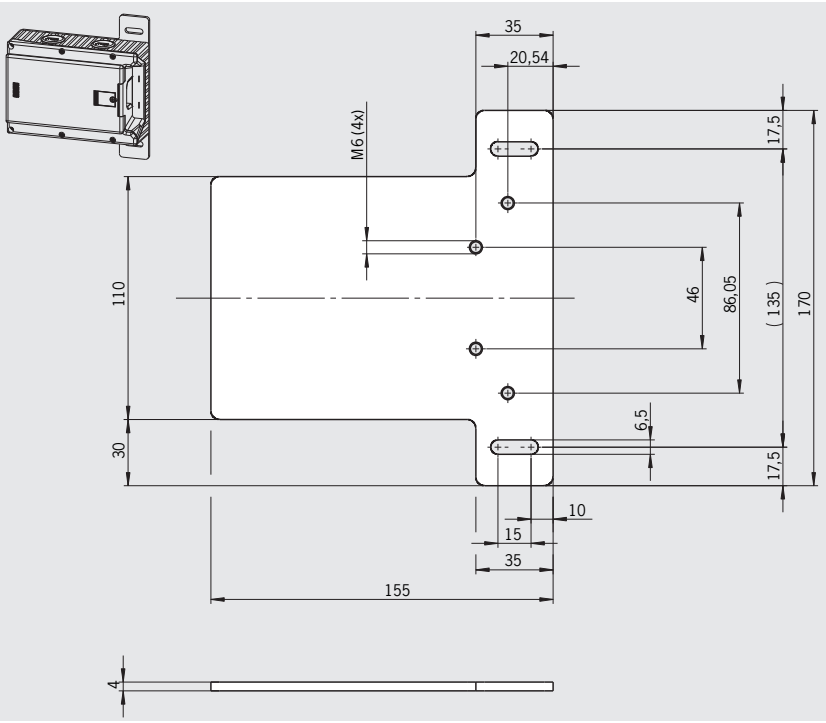
Mounting plates for modules MGB-...-AR... and MGB-...-AP...

- **Easy and quick mounting (only two screws required)**
- **Quick module replacement**
- **Robust stainless steel plate**
- **Suitable for doors hinged on the right or left**

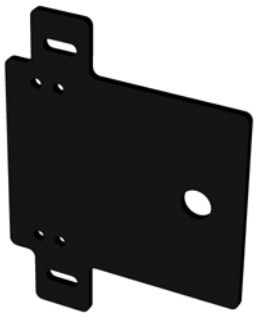
Mounting plate for evaluation module
Suitable for all interlocking or locking modules in the system families AR and AP. Two screws are sufficient for fastening the mounting plates.
Important: Only use if the handle module is also fastened to a mounting plate.



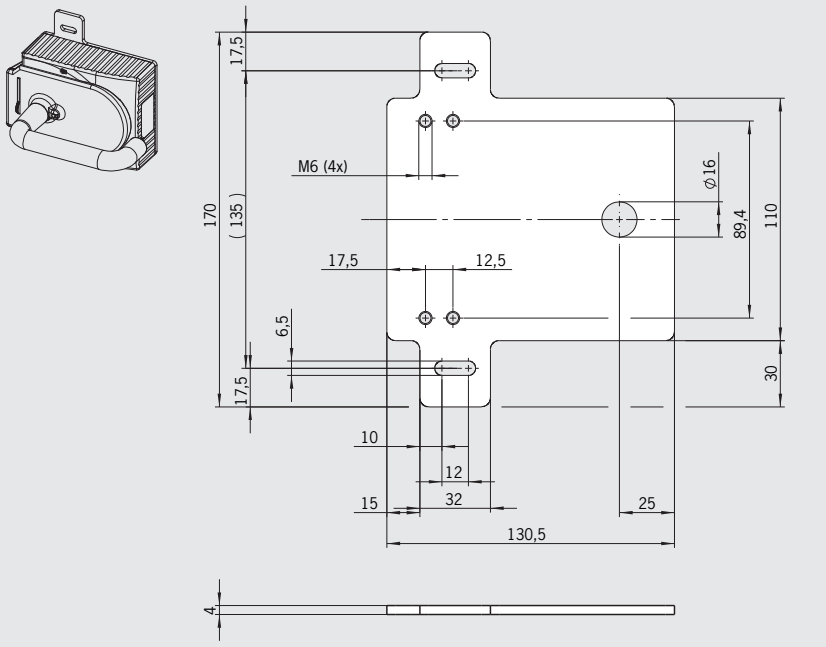
Mounting plate for evaluation module



Mounting plate for handle module
Suitable for all MGB handle modules. Two screws are sufficient for fastening the mounting plates.
Important: Only use if the evaluation module is also fastened to a mounting plate.



Mounting plate for handle modules

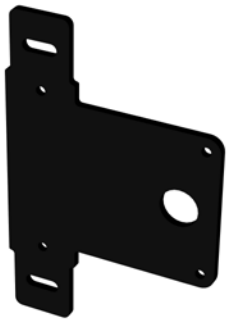


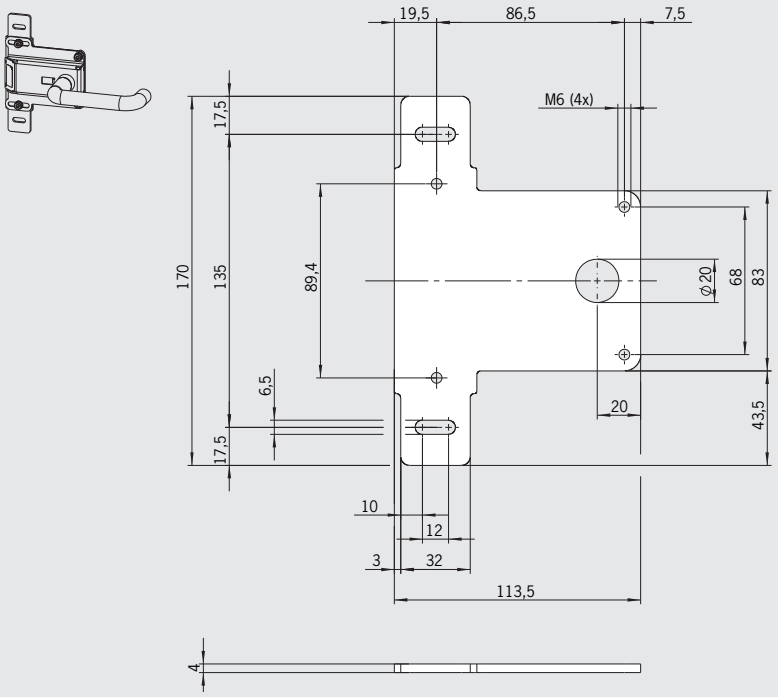
Ordering table

Series / designation	Version	Order no./item
Mounting plate for evaluation module	Suitable for all MGB-L.-AR.-... and MGB-L.-AP.-...	**109490** MGB-A-MOUNTINGPLATE-L-109490
Mounting plate for handle module	Suitable for all MGB handle modules	**109491** MGB-A-MOUNTINGPLATE-H-109491
Mounting plate for escape release	Suitable for all MGB escape releases	**109492** MGB-A-MOUNTINGPLATE-E-109492
Mounting plate for evaluation module-control module combination	Suitable for all MGB-L.-AR.-... and MGB-L.-AP.-... in combination with a control module MGB-C...	**110072** MGB-A-MOUNTINGPLATE-LC-110072

Mounting plate for escape release

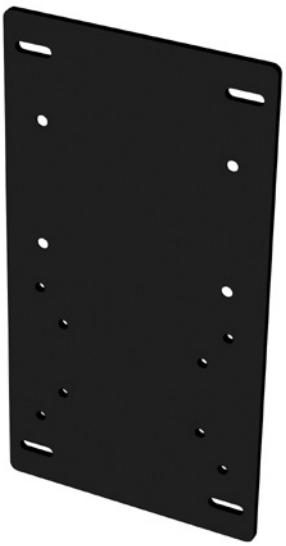
Mounting plate for escape release
Suitable for all MGB escape releases. Two screws are sufficient for fastening the mounting plates.
Important: Pay attention to length of the escape release actuation axis! You may need the longer axis (order no. 106761, see 68).

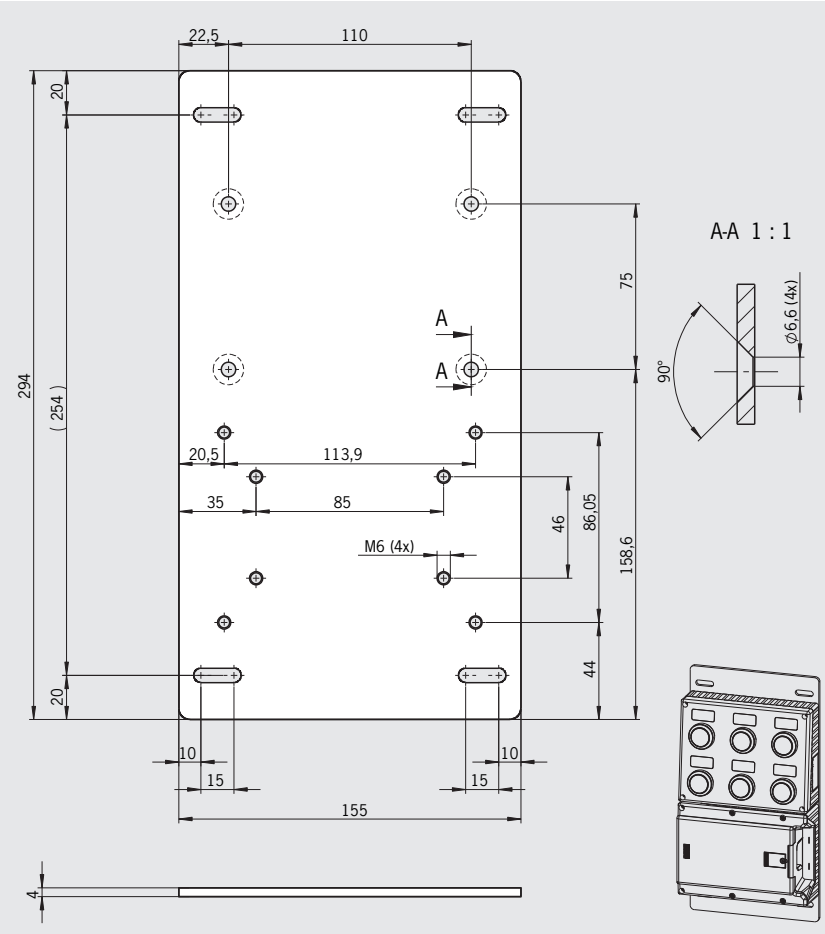




Mounting plate for evaluation module-control module combination

Mounting plate for evaluation module-control module combination
Suitable for all MGB combinations, comprising an evaluation module and a control module.
Important: Only use if the handle module is also fastened to a mounting plate.





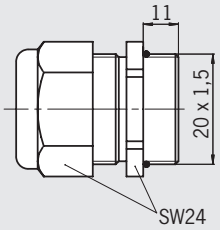
Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Cable gland

- **M20 x 1.5**
- **Material plastic**
- **Cable diameter 6 - 12 mm**

Cable gland EKPM20/06
Plastic

Dimension drawing



Plug connector RC18

- **Cable optional**
- **Halogen-free cable optional**

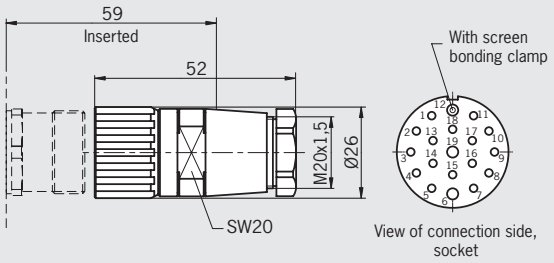
Crimp contacts
With 16 crimp pins for conductor cross-section 0.38 - 0.5 mm² and 3 pins for conductor cross-section 0.75 - 1.0 mm² for control of the guard locking solenoid.

PUR cable (optional)
Cable sleeve PUR, color black, conductor cross-section 0.5 mm² or 1.0 mm² (suitable for drag chain).
Depending on the cable version, either color-coded or with separately numbered, black cores.

PUR cable, halogen-free (optional)
Cable sleeve PUR, color black, halogen-free, silicone-free. Reduction of toxic gases and smoke in case of fire (suitable for drag chain).
Conductor cross-section 0.5 mm² or 1.0 mm².
Cores color-coded.

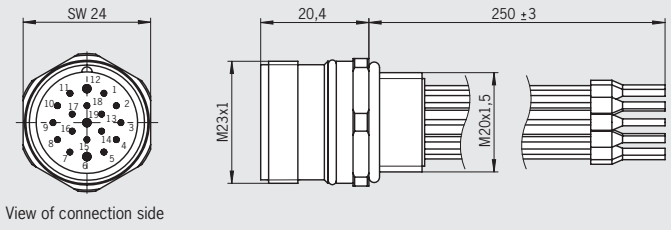
Plug connector RC18 (M23)
19-pin

Dimension drawing



Built-in connector RC18 (M23)
19-pin

Dimension drawing

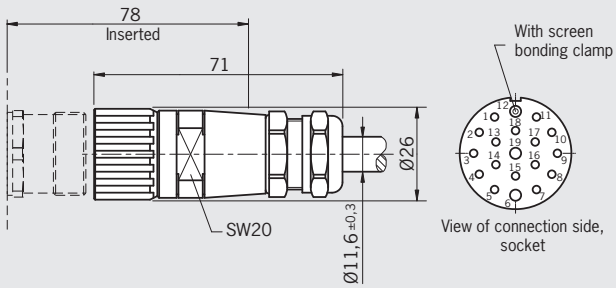


Ordering table

Designation	Version	Order no./item
Cable gland M20 x 1.5	Material plastic Cable diameter 6 - 12 mm	**086223** EKPM20/06
Plug connector RC18 (M23) 19-pin	**EF-C1825** Female plug (Crimp contacts included)	**077025** RC18EF-C1825
	Replacement pin crimp contacts Conductor cross-section 16 x 0.38 - 0.5 mm² 3 x 0.75 - 1 mm²	**094310** Pin crimp contact RCM-C1825
Built-in connector RC18 (M23) 19-pin		**120403** MGB-A-PLUGCONNECTOR-RC18-1204035

Connection cable PUR with plug connector M23
18-core + PE, color-coded

Dimension drawing



Assignment of connection cable with plug connector M23

Pin	Conductor coloring	Conductor cross-section [mm²]	Pin	Conductor coloring	Conductor cross-section [mm²]
1	VT	0.5	11	BK	0.5
2	RD	0.5	12	GN/YE	1.0
3	GY	0.5	13	PK	0.5
4	RD/BU	0.5	14	BN/GY	0.5
5	GN	0.5	15	BN/YE	0.5
6	BU	1.0	16	BN/GN	0.5
7	GY/PK	0.5	17	WH	0.5
8	GN/WH	0.5	18	YE	0.5
9	YE/WH	0.5	19	BN	1.0
10	GY/WH	0.5			

Ordering table

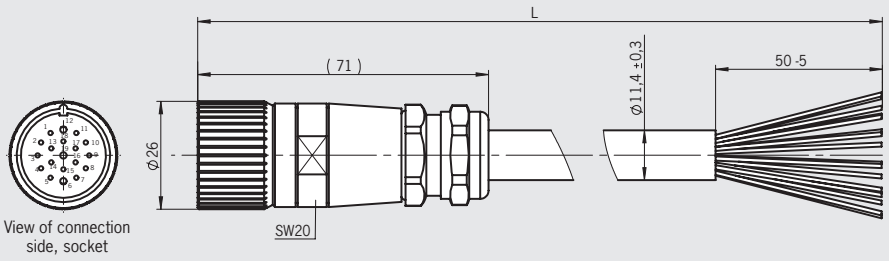
Designation	Cable length L [m]	Order no./item
Connection cable PUR with plug connector M23 18-core + PE, socket Cores color-coded	1.5	**092761** C-M23F19-19XDIFPU01,5-MA-092761
	3	**092816** C-M23F19-19XDIFPU03,0-MA-092816
	6	**077014** C-M23F19-19XDIFPU06,0-MA-077014
	8	**077015** C-M23F19-19XDIFPU08,0-MA-077015
	10	**092898** C-M23F19-19XDIFPU10,0-MA-092898
	15	**077016** C-M23F19-19XDIFPU15,0-MA-077016
	20	**092726** C-M23F19-19XDIFPU20,0-MA-092726
	25	**092727** C-M23F19-19XDIFPU25,0-MA-092727
	30	**095993** C-M23F19-19XDIFPU30,0-MA-095993
	40	**102490** C-M23F19-19XDIFPU40,0-MA-102490

Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Connection cables with plug connector M23

Connection cable PUR with plug connector M23
19-core, numbered

Dimension drawing



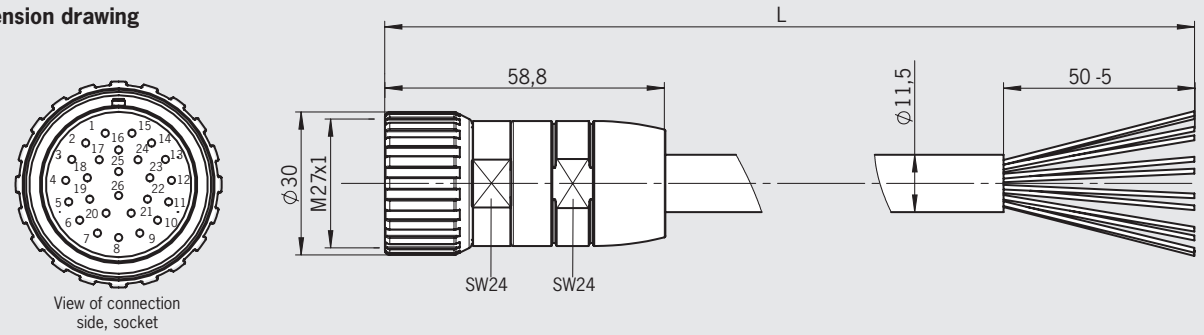
Ordering table

Designation	Cable length L [m]	Order no./item
Connection cable PUR with plug connector M23 19-core, socket Individual cores numbered, black, numbering corresponds to the pin number Conductor cross-section as for connection cable above	1.5	**110301** C-M23F19-PU01,5-MA-110301
	3	**110302** C-M23F19-PU03,0-MA-110302
	6	**110303** C-M23F19-PU06,0-MA-110303
	10	**110304** C-M23F19-PU10,0-MA-110304
	15	**110305** C-M23F19-PU15,0-MA-110305
	20	**110306** C-M23F19-PU20,0-MA-110306
	25	**110307** C-M23F19-PU25,0-MA-110307
	30	**122434** C-M23F19-PU30,0-MA-122434
	40	**122435** C-M23F19-PU40,0-MA-122435

Connection cables with plug connector RC26

Connection cable PUR with plug connector RC26
26-core + PE, numbered

Dimension drawing



View of connection side, socket

Conductor cross-section of connection cable with plug connector RC26

Pin	Conductor cross-section [mm²]	Pin	Conductor cross-section [mm²]	Pin	Conductor cross-section [mm²]
1	1.0	10	0.5	19	0.5
2	1.0	11	0.5	20	0.5
3	1.0	12	0.5	21	0.5
4	0.5	13	0.5	22	0.5
5	0.5	14	0.5	23	0.5
6	0.5	15	0.5	24	0.5
7	0.5	16	0.5	25	0.5
8	0.5	17	0.5	26	0.5
9	0.5	18	0.5		

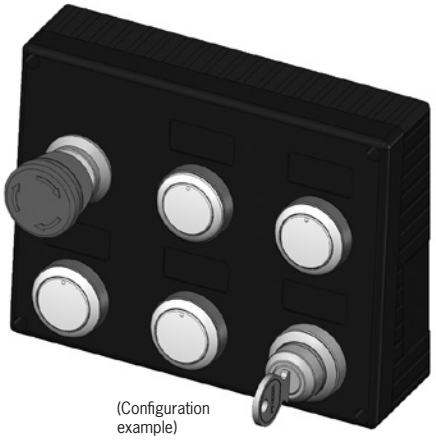
Ordering table

Designation	Cable length L [m]	Order no./item
Connection cable TPE-U with plug connector RC26 26-core, socket Individual cores numbered, black, numbering corresponds to the pin number	1.1	**114976** C-M27F26-PU01,1-MA-114976
	2	**111997** C-M27F26-PU02,0-MA-111997
	5	**111998** C-M27F26-PU05,0-MA-111998
	10	**111999** C-M27F26-PU10,0-MA-111999
	20	**112912** C-M27F26-PU20,0-MA-112912
	35	**123829** C-M27F26-PU35,0-MA-123829
	50	**123877** C-M27F26-PU50,0-MA-123877

Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Expand your options - the control module for the MGB

- **Space for up to 6 controls and indicators**
- **Ideal expansion solution for the MGB system**
- **A large amount of design flexibility**



(Configuration example)

In the control module it is possible to integrate controls such as pushbuttons, emergency stop, key-operated switches, selector switches or even indicators as required. In this way a complete functional control panel can be built up.

Even the MGB basic system comprising handle module and interlocking/locking module includes numerous functions. And if requirements grow, the MGB system simply grows with them with the aid of the control module.

Furthermore, the control module forms an attractive unit together with the MGB. An elegant alternative to the gray switch boxes that were common in the past.

Benefits for you

- Simple expansion of the MGB system
- Flexible configuration with standard components
- Attractive solution from one mold
- Functional unit, all control functions in one place
- Alternative to previous control terminals

Control modules MGB-C...

(Configuration example)

Details

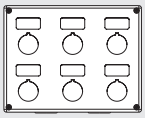
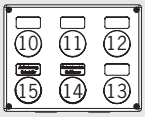
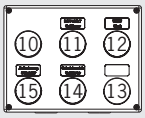
Emergency stop with monitoring contact
Additional normally open contact in the emergency stop, e.g. as monitoring contact for the control system.

Further information

- **Dimension drawings see p. 79**
- **Technical data see p. 83**
- **Accessories and spare parts see p. 82**
- **www.euchner.com**

- **Integrated controls and indicators**

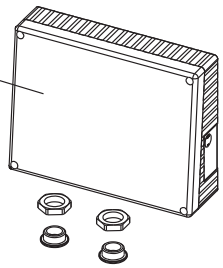
Ordering table

Version/configuration scheme	S10 H10	S11 H11	S12 H12	S13 H13	S14 H14	S15 H15	Order no./item
 Empty housing incl. cover and 2 dummy plugs	–	–	–	–	–	–	**109219** MGB-C-000000-A1-109219
 Empty housing incl. cover with holes, 6 slide-in labels (enclosed) and 2 dummy plugs	Hole	Hole	Hole	Hole	Hole	Hole	**114268** MGB-C-0HHHHHH-A1-114268
 4 slide-in labels (enclosed), 2 inscribed slide-in labels	Blind plug	Blind plug	Blind plug	Blind plug	Acknowledge protection zone bu	Safety door request ye	**112023** MGB-C-1BBBBPP-A3-112023
 1 slide-in label (enclosed), 4 inscribed slide-in labels		Acknowledge emergency stop rd	WZW start wh	Blind plug	Acknowledge protection zone bu	Safety door request ye	**112022** MGB-C-1EPPBPP-A3-112022
Connection kit	- Printed circuit board with plug-in spring terminals - Pre-assembled wires and cable straps						**109858** MGB-A-LPSET-109858
Connection set	2 housing sleeves for gland M20 x 1.5						**109524** MGB-A-BUSH-109524

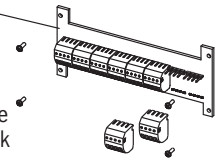
Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

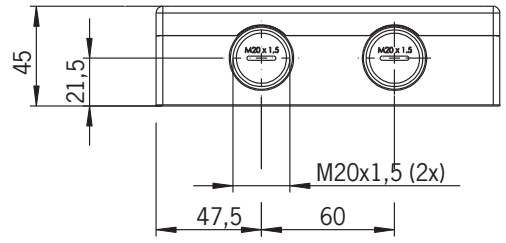
Dimension drawing and configuration example

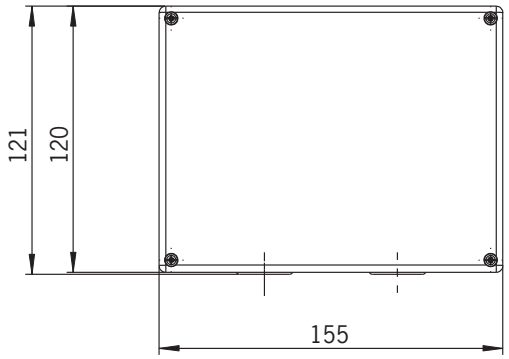
Control module housing (MGB-C...)
Order No. 109219
Including:
- 1 x empty housing
- 1 x cover
- 2 x dummy plug



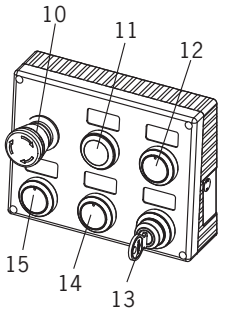
Connection kit
Order No. 109858
Including:
- 1 pc. printed circuit board with plug-in spring terminals
- 4 pcs. fixing screws for printed circuit board
- 7 pcs. flexible wires complete 0.34 mm² red
- 7 pcs. flexible wires complete 0.34 mm² blue
- 16 pcs. flexible wires complete 0.34 mm² black
- 6 pcs. cable straps



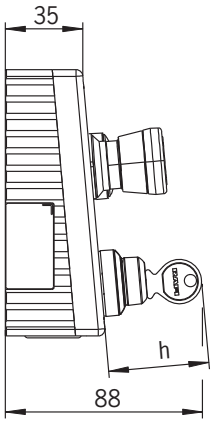


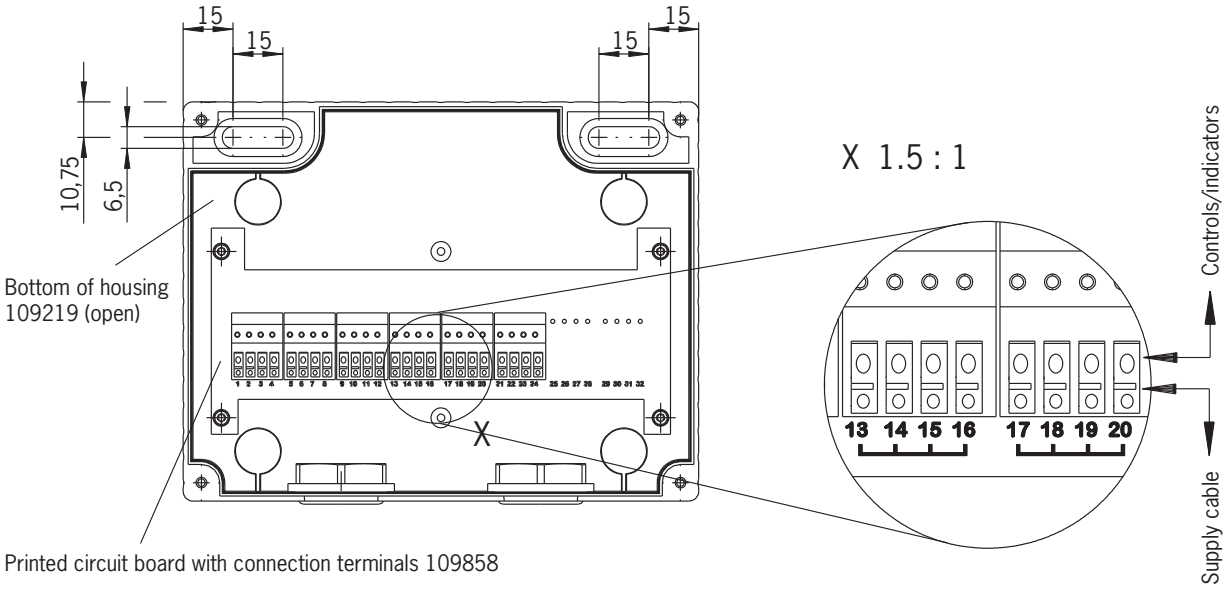


Configuration example



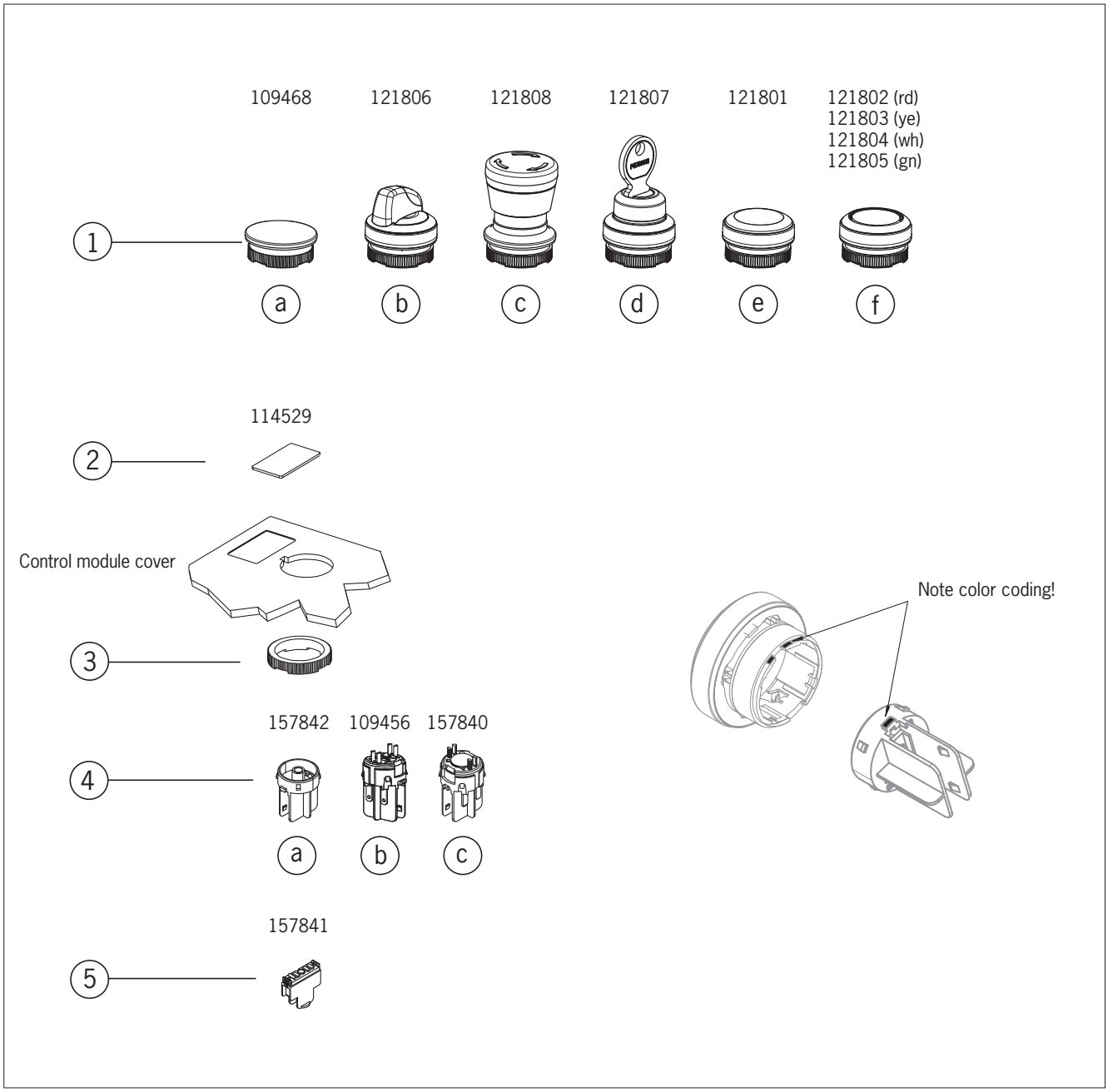
Item	Version	h [mm]
10	Emergency stop pushbutton	33.4
11	Cover for indicators, red	10
12	Cover for indicators, green	
13	Key-operated rotary switch	45.1
14	Illuminated pushbuttons	10
15	Illuminated pushbuttons	





Overview, controls and indicators

(suitable only for use in the control module)



① **Controls/indicators**
- a Blind plug
- b Selector switch, 2 positions, latching
- c Emergency stop, turn-to-reset
- d Key-operated switch, 2 positions, latching (key removable in both positions)
- e Pushbutton, illumination with 157841
- f Cover for indicators, different colors, illumination with 157841

② **Adhesive label**

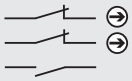
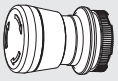
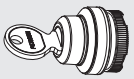
③ **Knurled nut (included with item 1)**

④ **Switching element/LED holder**
- a LED holder
- b Switching element, 2 positively driven NC contacts, 1 NO contact
- c Switching element, 1 NO contact

⑤ **LED element, white**

Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Combination options

	Switching element Order no. 157840	Switching element Order no. 109456	LED holder Order no. 157842
			
LED Order no. 157841	X	–	●
 Emergency stop Order no. 121808 Latching with turn-to-reset	–	●	–
 0 1 Key-operated switch (2 positions) Order no. 121807 Incl. 2 keys Key removable in both positions	● 1)	–	–
0 1 Selector switch (2 positions) Order no. 121806	●	–	–
Pushbutton (illuminated) Order no. 121801	●	–	–
Cover for indicators Order no. 121802 (rd) Order no. 121803 (ye) Order no. 121804 (wh) Order no. 121805 (gn)	–	–	●
Adhesive label Order no. 114529		●	
Blind plug Order no. 109468		–	

x = Optional
– = Not combinable
● = Combinable
[1] Not in combination with 157841 (LED)

Spare parts and accessories

Designation	Description	Order No.	Item
Blind plug		109468	MP-A-B-00-00-00-109468
Cover for indicators (without LED holder)	Transparent - (rd) red - (ye) yellow - (wh) white - (gn) green	121802 121803 121804 121805	MP-B-L-R0-RD-00-121802 MP-B-L-R0-YE-00-121803 MP-B-L-R0-WH-00-121804 MP-B-L-R0-GN-00-121805
Pushbutton (without switching element)		121801	MP-B-P-RT-NC-A1-121801
Emergency stop (without switching element)	Latching, turn-to-reset	121808	MP-B-E-RD-00-A4-121808
Selector switch (without switching element)	2 positions, latching in 2 positions	121806	MP-B-S-RR-00-A2-121806
Key-operated switch (without switching element)	Incl. 2 keys 2 positions; key removable in each position	121807	MP-B-K-RR-00-A3-121807
Adhesive labels	Silver, blank (packaging unit = 10 pcs.)	114529	MGB-A-PLATESET-NN01-114529
Connection set	2 housing sleeves for gland M20x1.5	109524	MGB-A-BUSH-109524
Switching element with LED holder	- 2 positively driven NC contacts, 1 NO contact - 1 NO contact (expandable with LED element)	109456 157840	MP-A-C-GM-21-00-109456 MP-A-C-GU-01-00-157840
LED holder		157842	MP-A-C-CH-00-00-157842
LED element	LED, white	157841	MP-A-C-LC-WH-00-157841
Lens set 3 pcs.	1 x GN ⏻ 1 x YE ⚠ 1 x WH	126158	MGB-A-LENSSET-SY03-126158
Lens sets 6 pcs.	2 x WH/1 x BU/ 1 x YE/ 1 x GN/ 1 x RD	120344	MGB-A-LENSSET-0001-120344
	1 x WH/1 x BU/ 1 x YE/ 1 x GN/ 1 x RD/1 x BK	120378	MGB-A-LENSSET-0002-120378
	1 x WH 🔒 1 x WH 🔒 1 x GN ◈ 1 x WH ◈ 1 x WH I 1 x WH ⟳	120377	MGB-A-LENSSET-SY01-120377
Lens set 15 pcs.	1 x WH 4 x BK 1 x WH 🔒 1 x WH 🔒 2 x WH ➚ 2 x WH ➘ 1 x WH OK 1 x WH ✓ 1 x WH 🔒₂ 1 x WH 🔒₂	125359	MGB-A-LENSSET-SY02-125359

Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Technical data

Empty housing

Parameter	Value
Housing material	Reinforced thermoplastic
Ambient temperature	-20 ... 55 °C
Degree of protection according to EN 60529	IP 65
Degree of contamination/material group	3 (industrial)
External connection	2 x cable entry M20x1.5
Internal connection (plug-in spring terminals)	0.2 ... 1.5 mm^2

Controls

Parameter	Value
Mech. life - Pushbutton - Emergency stop - Selector switch - Key-operated switch	 $1x10^6$ $5x10^4$ $3x10^5$ $3x10^4$
Ambient temperature	-20 ... 55 °C
Degree of protection according to EN 60529	IP 65 (fitted), key-operated switch IP 54

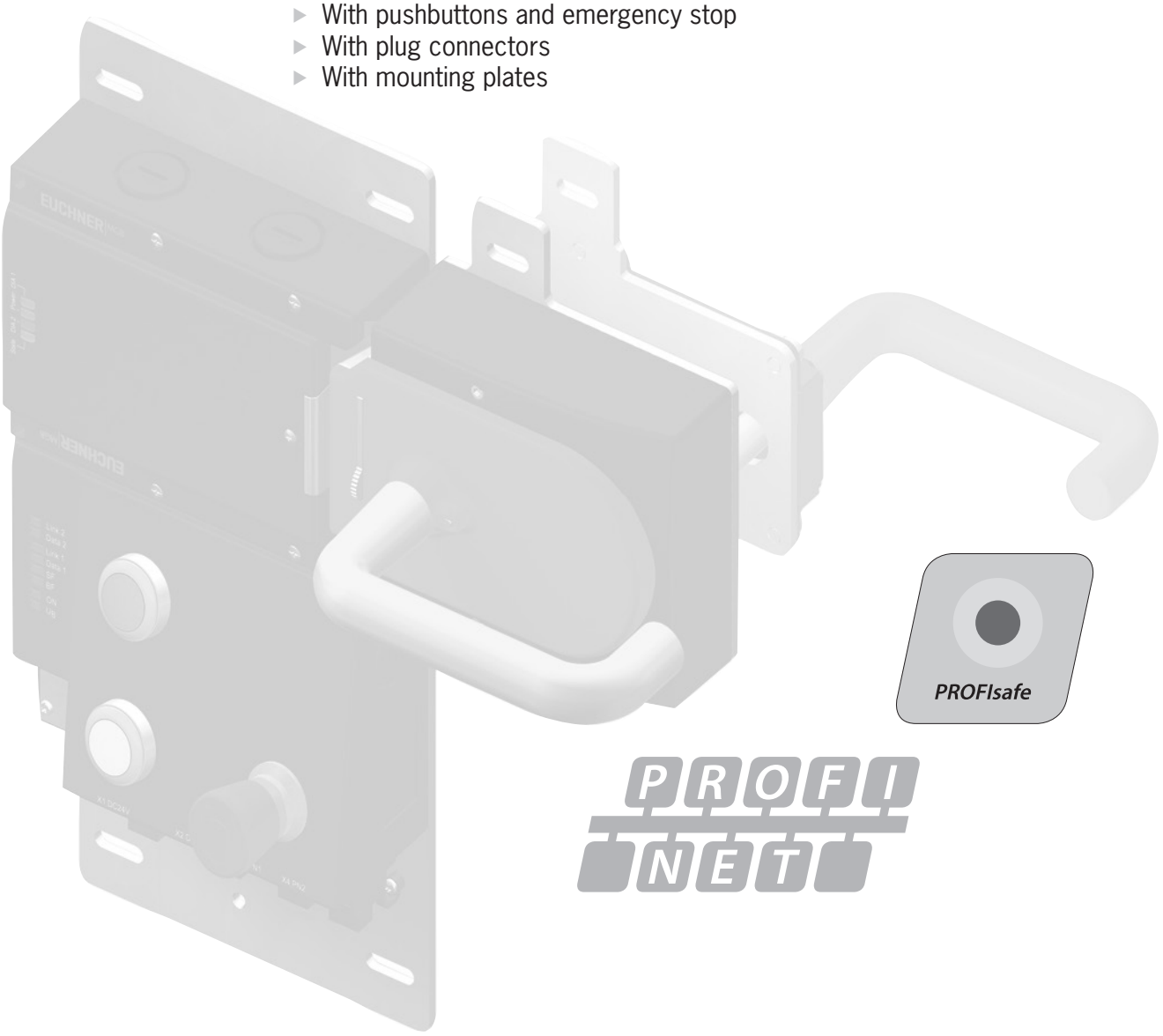
Switching elements, LED

Parameter	Value
Mechanical life at 10 mA/24 V DC ...-GU-... ...-GM-...	 $1x10^6$ $5x10^4$
Ambient temperature	-20 ... 55 °C
Operating voltage - Switching elements - LED	 5 ... 35 V 24 V
Operating current - Switching elements - LED	 1 ... 100 mA max. 30 mA permissible
Breaking capacity max.	250 mW
Connection	Connector 2.8 x 0.8 mm
Contact material	Au
Shock resistance according to IEC 60068-2-27	15 g
Vibration resistance IEC 60068-2-6	5 g (10 ... 500 Hz)
Positively driven ...GM...	According to IEC 60947-5-1 (positively driven NC contact)

Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Complete sets system family MGB-PN

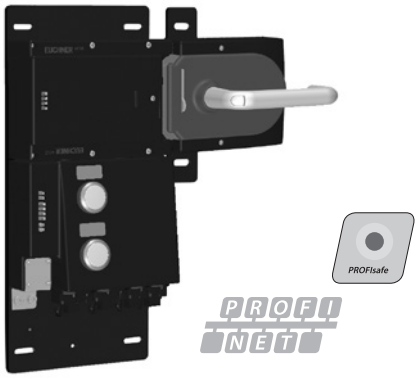
- Profinet and Profisafe
- With pushbuttons and emergency stop
- With plug connectors
- With mounting plates



Locking sets MGB-L1-PN... (guard locking by spring force)	**86 - 96**
with 2 controls and indicators	86
with 3 controls and indicators	90
with 4 controls and indicators	94
Locking sets MGB-L2-PN... (guard locking by solenoid force)	**98 - 112**
without controls and indicators	98
with 3 controls and indicators	102
with 6 controls and indicators	106
Control modules MGB-...-PN	**114**
Assignment of the terminal plugs	**118**
Technical data	**120**
Dimension drawing	**121**

Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Locking sets MGB-L1...-PN... (guard locking by spring force)
with 2 controls or indicators



- **Integrated controls and indicators**
- **Pre-assembled on mounting plates**
- **Integrated Profinet RT switch**

Details

Profinet connection
Connection via push-pull plugs according to IEC 61076-3-117, variant 14.

Profinet RT switch
Point-to-point topology network structure due to integrated RT switch.

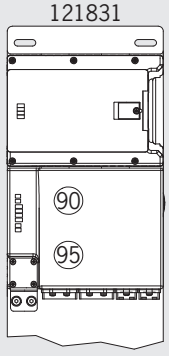
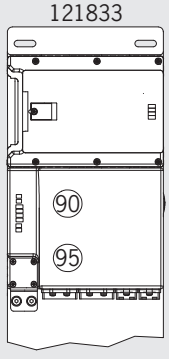
Flexible usage as interlocking or guard locking
By means of the corresponding evaluation of the safe device data by the control system, usage can be as either interlocking or guard locking (with or without monitoring).

Lens set
The color of the pushbutton can be selected using the lens set 120344 included.

Further information

- **Dimension drawings see p. 121**
- **Technical data see p. 120**
- **Accessories and spare parts see p. 88**
- **www.euchner.com**

Ordering table

Modules in the set								Ordering data, set
Version/configuration scheme Order no. module combination	Evaluation module and bus module	Controls and indicators		Data ranges	Handle module Order no. separate module	Escape release Order no. separate module	Door hinge (Factory setting)	Order no./item
		S90 / H90	S95 / H95					
PROFINET PN	121831  Incl. adhesive labels	 *)	 *)	A	106049	–	Right	**121832** MGB-L1HB-PNA-R-121832 (Modules pre-assembled on mounting plates)
	121833  Incl. adhesive labels				106221		Left	**121834** MGB-L1HB-PNA-L-121834 (Modules pre-assembled on mounting plates)

* The color can be selected using the lens set included.

Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Data ranges

You will require the corresponding GSD file in GSDML format in order to integrate the MGB system:
GSDML-Vx.x-EUCHNER-MGB_110026-YYYYMMDD.xml
You will find the GSD file in the download area at www.euchner.com.
Prior to setup, the GSD file must be imported into the configuration software of the control system (see manual for your control system).

PROFINET data bytes
(unsafe input/output area)

A

Assignment in input area of the bus master

Slot 1/byte 0	–	–	S95.1	–	–	–	–	S90.1
Slot 1/byte 1	–	–	–	–	–	–	–	–
Slot 2/byte 0	ÜK	SK	–	–	–	R	R	T
Slot 3/byte 0	I24	–	–	–	–	I19	I18	I17
Slot 1/byte 0	Pushbutton S90 - S95 1st contact							
Slot 1/byte 1	Pushbutton S90 - S95 2nd contact							
Slot 2/byte 0	Locking module							
Slot 3/byte 0	Diagnostic module							

Assignment in output area of the bus master

Slot 1/byte 0	–	–	H95	–	–	–	–	H90
Slot 2/byte 0	–	–	–	–	–	–	–	Sol.
Slot 3/byte 0	–	–	–	–	–	–	O18	O17
Slot 1/byte 0	LEDs H90 - H95							
Slot 2/byte 0	Guard locking solenoid							
Slot 3/byte 0	Diagnostic module							

PROFIsafe data bytes
(safe input/output area)

A

Assignment of PROFIsafe in input area of the bus master

Byte n+0	–	–	–	SI5	SI4	SI3	–	–
Byte n+1	–	–	–	–	–	–	SI10	SI9
Byte n+2	PROFIsafe internal (control byte)							
Byte n+3	PROFIsafe internal (ser. no.)							
Byte n+4	PROFIsafe internal (CRC2)							
Byte n+5	PROFIsafe internal (CRC2)							
SI3	Door position (T)							
SI4	Bolt position (R)							
SI5	Guard locking (Z)							
SI9	SK (T **AND** R)							
SI10	ÜK (T **AND** R **AND** Z)							

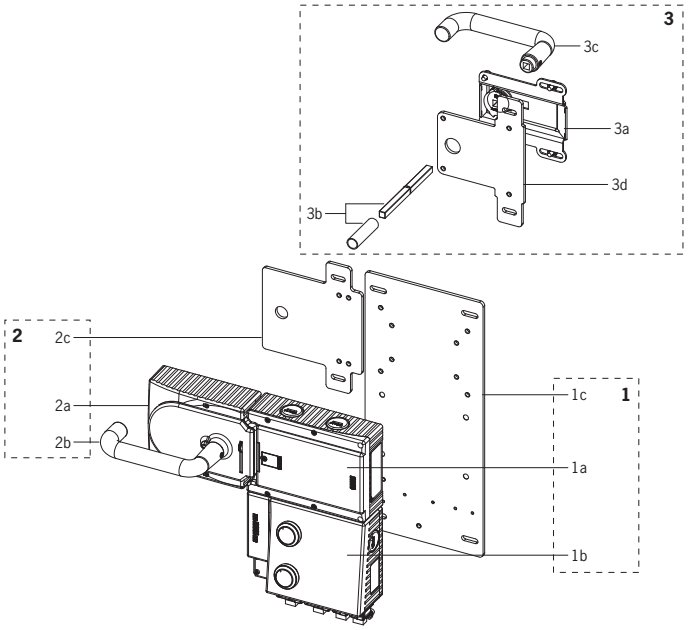
Assignment of PROFIsafe in output area of the bus master

Byte n+0	–	–	–	–	–	–	–	SO1
Byte n+1	–	–	–	–	–	–	–	–
Byte n+2	PROFIsafe internal (control byte)							
Byte n+3	PROFIsafe internal (ser. no.)							
Byte n+4	PROFIsafe internal (CRC2)							
Byte n+5	PROFIsafe internal (CRC2)							
SO1	Guard locking solenoid							

Locking sets MGB-L1...-PN... (guard locking by spring force)
with 2 controls or indicators

Cat. 4 PLe

System components and spare parts



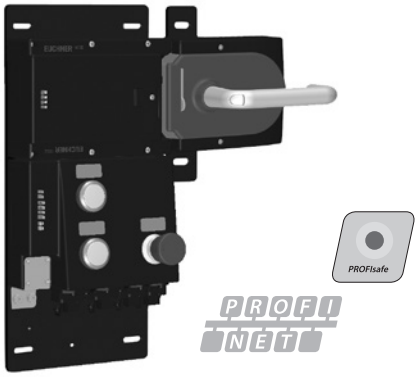
Ordering table for system components, spare parts and accessories

Notice: It is only possible to order spare parts that are given in the following ordering table with an order number.

Item	Designation	Use/description	Order No./item
1	**System unit MGB-L1B-...** (guard locking by spring force)	For doors hinged on the left	**121833** MGB-L1B-PNA-L-121833
		For doors hinged on the right	**121831** MGB-L1B-PNA-R-121831
	comprising:		
1a	- Evaluation module		-
1b	- Bus module		-
1c	- Mounting plate		
2	**Handle module MGB-H-...** comprising:	For doors hinged on the left	**106221** MGB-H-AA1A2-L-106221
		For doors hinged on the right	**106049** MGB-H-AA1A2-R-106049
2a	- Handle module		-
2b	- Door handle	Color silver	**123926** MGB-A-DOORHANDLE-S2-123926
2c	- Mounting plate	For handle module MGB-H-...	**109491** MGB-A-MOUNTINGPLATE-H-109491
3	**Escape release MGB-E-...** comprising:		**106051** MGB-E-A2-106051
3a	- Escape release		-
3b	- Escape release shaft	Standard length 118 mm (square 8x8 mm + sleeve)	-
	- Long escape release shaft (instead of item 3b)	Length 250 mm (square 8x8 mm + sleeve 182 mm long)	**106761** MGB-A-ESCAPERELEASESHAFT 250
3c	- Door handle	Color red	**110276** MGB-A-DOORHANDLE-R-110276
3d	- Mounting plate	For escape release MGB-E-...	**109492** MGB-A-MOUNTINGPLATE-E-109492

Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Locking sets MGB-L1...-PN... (guard locking by spring force)
with 3 controls or indicators



- **Integrated controls and indicators**
- **Pre-assembled on mounting plates**
- **Integrated Profinet RT switch**

Details

Profinet connection
Connection via push-pull plugs according to IEC 61076-3-117, variant 14, or 7/8" plugs according to ANSI/B93.55M-1981 and M12 plugs according to IEC 61076-2-101.

Profinet RT switch
Point-to-point topology network structure due to integrated RT switch.

Flexible usage as interlocking or guard locking
By means of the corresponding evaluation of the safe device data by the control system, usage can be as either interlocking or guard locking (with or without monitoring).

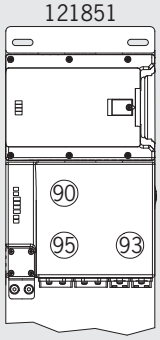
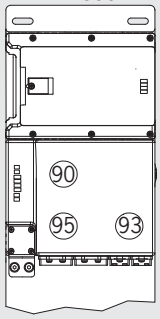
Illuminated emergency stop
Emergency stop with illumination that can be controlled as required.

Lens set
The color of the pushbutton can be selected using the lens set 120344 included.

Further information

- **Dimension drawings see p. 121**
- **Technical data see p. 120**
- **Accessories and spare parts see p. 93**
- **www.euchner.com**

Ordering table

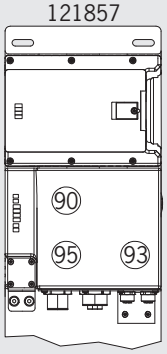
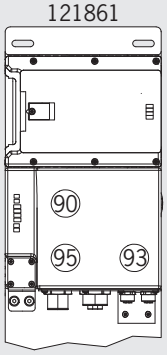
Modules in the set								Ordering data, set
Version/configuration scheme Order no. module combination	Evaluation module and bus module	Controls and indicators			Data ranges	Handle module Order no. separate module	Escape release Order no. separate module	Door hinge (Factory setting)	Order no./item
		S93	S90	S95					
		H93	H90	H95					
PROFINET PN	121851  Incl. adhesive labels, push-pull plugs		 *)	 *)	A	106049	–	Right	**121852** MGB-L1HB-PNA-R-121852 (Modules pre-assembled on mounting plates)
	121855  Incl. adhesive labels, push-pull plugs					106221		Left	**121856** MGB-L1HB-PNA-L-121856 (Modules pre-assembled on mounting plates)

* The color can be selected using the lens set included.

(Continued on next page)

Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Ordering table (continued)

Modules in the set									Ordering data, set
	Evaluation module and bus module				Data ranges	Handle module Order no. separate module	Escape release Order no. separate module	Door hinge (Factory setting)	Order no./item
Version/configuration scheme Order no. module combination		Controls and indicators							
		S93	S90	S95					
		H93	H90	H95					
PROFINET PN	121857  Pre-assembled on mounting plate, incl. adhesive labels, 7/8" plugs and M12 plugs	STOP	*)	*)	A	106049 Pre-assembled on mounting plate	–	Right	**121858** MGB-L1HB-PNA-R-121858
	121861  Pre-assembled on mounting plate, incl. adhesive labels, 7/8" plugs and M12 plugs					106221 Pre-assembled on mounting plate		Left	**121862** MGB-L1HB-PNA-L-121862

* The color can be selected using the lens set included.

Locking sets MGB-L1...-PN... (guard locking by spring force)
with 3 controls or indicators

Data ranges

You will require the corresponding GSD file in GSDML format in order to integrate the MGB system:
GSDML-Vx.x-EUCHNER-MGB_110026-YYYYMMDD.xml
You will find the GSD file in the download area at www.euchner.com.
Prior to setup, the GSD file must be imported into the configuration software of the control system (see manual for your control system).

PROFINET data bytes
(unsafe input/output area)

A

Assignment in input area of the bus master

Slot 1/byte 0	–	–	S95.1	–	–	–	–	S90.1
Slot 1/byte 1	–	–	–	–	–	–	–	–
Slot 2/byte 0	–	–	–	–	–	–	–	S93
Slot 3/byte 0	ÜK	SK	–	–	–	R	R	T
Slot 4/byte 0	I24	–	–	–	–	I19	I18	I17
Slot 1/byte 0	Pushbutton S90 - S95 1st contact							
Slot 1/byte 1	Pushbutton S90 - S95 2nd contact							
Slot 2/byte 0	Emergency stop monitoring contact							
Slot 3/byte 0	Locking module							
Slot 4/byte 0	Diagnostic module							

Assignment in output area of the bus master

Slot 1/byte 0	–	–	H95	–	–	–	–	H90
Slot 2/byte 0	–	–	–	–	–	–	–	H93
Slot 3/byte 0	–	–	–	–	–	–	–	Sol.
Slot 4/byte 0	–	–	–	–	–	–	O18	O17
Slot 1/byte 0	LEDs H90 - H95							
Slot 2/byte 0	Emergency stop LED							
Slot 3/byte 0	Guard locking solenoid							
Slot 4/byte 0	Diagnostic module							

PROFIsafe data bytes
(safe input/output area)

A

Assignment of PROFIsafe in input area of the bus master

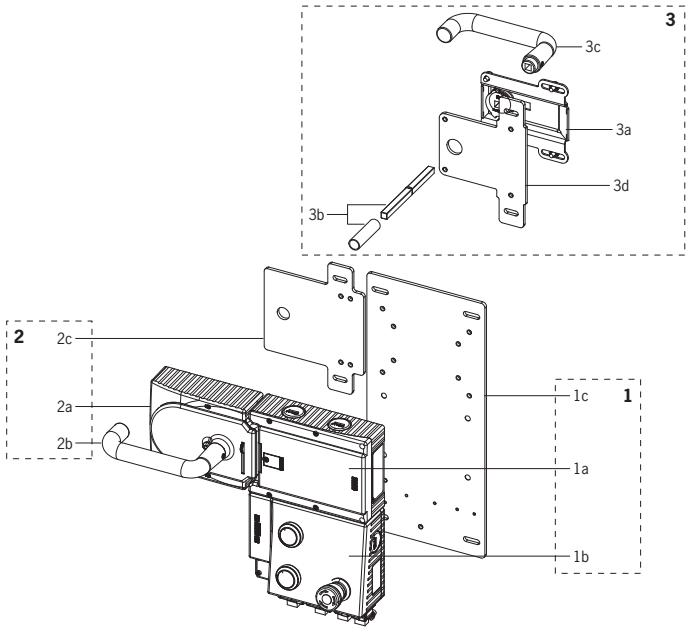
Byte n+0	–	–	–	SI5	SI4	SI3	–	SI1
Byte n+1	–	–	–	–	–	–	SI10	SI9
Byte n+2	PROFIsafe internal (control byte)							
Byte n+3	PROFIsafe internal (ser. no.)							
Byte n+4	PROFIsafe internal (CRC2)							
Byte n+5	PROFIsafe internal (CRC2)							
SI1	Emergency stop S93							
SI3	Door position (T)							
SI4	Bolt position (R)							
SI5	Guard locking (Z)							
SI9	SK (T **AND** R)							
SI10	ÜK (T **AND** R **AND** Z)							

Assignment of PROFIsafe in output area of the bus master

Byte n+0	–	–	–	–	–	–	–	SO1
Byte n+1	–	–	–	–	–	–	–	–
Byte n+2	PROFIsafe internal (control byte)							
Byte n+3	PROFIsafe internal (ser. no.)							
Byte n+4	PROFIsafe internal (CRC2)							
Byte n+5	PROFIsafe internal (CRC2)							
SO1	Guard locking solenoid							

Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

System components and spare parts

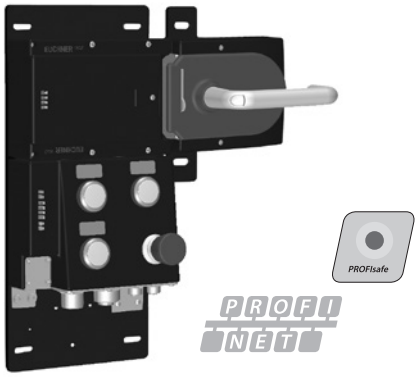


Ordering table for system components, spare parts and accessories

Notice: It is only possible to order spare parts that are given in the following ordering table with an order number.

Item		Designation	Use/description	Order No./item
1		**System unit MGB-L1B-...** (guard locking by spring force)	For doors hinged on the left	**121855** MGB-L1B-PNA-L-121855
				121861 MGB-L1B-PNA-L-121861
			For doors hinged on the right	**121851** MGB-L1B-PNA-R-121851
				121857 MGB-L1B-PNA-R-121857
		comprising:		
	1a	- Evaluation module		-
	1b	- Bus module		-
	1c	- Mounting plate		
2		**Handle module MGB-H-...** comprising:	For doors hinged on the left	**106221** MGB-H-AA1A2-L-106221
			For doors hinged on the right	**106049** MGB-H-AA1A2-R-106049
	2a	- Handle module		-
	2b	- Door handle	Color silver	**123926** MGB-A-DOORHANDLE-S2-123926
	2c	- Mounting plate	For handle module MGB-H-...	**109491** MGB-A-MOUNTINGPLATE-H-109491
3		**Escape release MGB-E-...** comprising:		**106051** MGB-E-A2-106051
	3a	- Escape release		-
	3b	- Escape release shaft	Standard length 118 mm (square 8x8 mm + sleeve)	-
		- Long escape release shaft (instead of item 3b)	Length 250 mm (square 8x8 mm + sleeve 182 mm long)	**106761** MGB-A-ESCAPERELEASESHAFT 250
	3c	- Door handle	Color red	**110276** MGB-A-DOORHANDLE-R-110276
	3d	- Mounting plate	For escape release MGB-E-...	**109492** MGB-A-MOUNTINGPLATE-E-109492

Locking sets MGB-L1...-PN... (guard locking by spring force)
with 4 controls or indicators



- **Integrated controls and indicators**
- **Pre-assembled on mounting plates**
- **Integrated Profinet RT switch**

Details

Profinet connection
Connection via 7/8" plugs according to ANSI/ B93.55M-1981 and M12 plugs according to IEC 61076-2-101.

Profinet RT switch
Point-to-point topology network structure due to integrated RT switch.

Flexible usage as interlocking or guard locking
By means of the corresponding evaluation of the safe device data by the control system, usage can be as either interlocking or guard locking (with or without monitoring).

Illuminated emergency stop
Emergency stop with illumination that can be controlled as required.

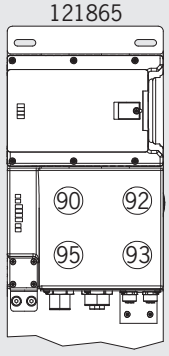
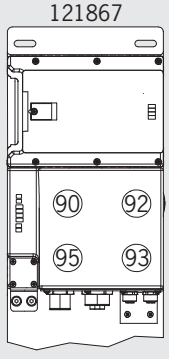
Lens set
The color of the pushbutton can be selected using the lens set 120344 included.

Multicode evaluation
Every suitable handle module is detected by the safety switch.

Further information

- **Dimension drawings see p. 121**
- **Technical data see p. 120**
- **Accessories and spare parts see p. 96**
- **www.euchner.com**

Ordering table

Modules in the set										Ordering data, set
Version/configuration scheme Order no. module combination	Evaluation module and bus module	Controls and indicators				Data ranges	Handle module Order no. separate module	Escape release Order no. separate module	Door hinge (Factory setting)	Order no./item
		S93	S90	S92	S95					
		H93	H90	H92	H95					
PROFINET PN	121865  Incl. adhesive labels	STOP	*)	*)	*)	A	111838	–	Right	**121866** MGB-L1HB-PNC-R-121866 (Modules pre-assembled on mounting plates)
	121867  Incl. adhesive labels						111839		Left	**121868** MGB-L1HB-PNC-L-121868 (Modules pre-assembled on mounting plates)

* The color can be selected using the lens set included.

Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Data ranges

You will require the corresponding GSD file in GSDML format in order to integrate the MGB system:
GSDML-Vx.x-EUCHNER-MGB_110026-YYYYMMDD.xml
You will find the GSD file in the download area at www.euchner.com.
Prior to setup, the GSD file must be imported into the configuration software of the control system (see manual for your control system).

PROFINET data bytes
(unsafe input/output area)

A

Assignment in input area of the bus master

Slot 1/byte 0	–	–	S95.1	–	–	S92.1	–	S90.1
Slot 1/byte 1	–	–	–	–	–	–	–	–
Slot 2/byte 0	–	–	–	–	–	–	–	S93
Slot 3/byte 0	ÜK	SK	–	–	–	R	R	T
Slot 4/byte 0	I24	–	–	–	–	I19	I18	I17
Slot 1/byte 0	Pushbutton S90 - S95 1st contact							
Slot 1/byte 1	Pushbutton S90 - S95 2nd contact							
Slot 2/byte 0	Emergency stop monitoring contact							
Slot 3/byte 0	Locking module							
Slot 4/byte 0	Diagnostic module							

Assignment in output area of the bus master

Slot 1/byte 0	–	–	H95	–	–	H92	–	H90
Slot 2/byte 0	–	–	–	–	–	–	–	H93
Slot 3/byte 0	–	–	–	–	–	–	–	Sol.
Slot 4/byte 0	–	–	–	–	–	–	O18	O17
Slot 1/byte 0	LEDs H90 - H95							
Slot 2/byte 0	Emergency stop LED							
Slot 3/byte 0	Guard locking solenoid							
Slot 4/byte 0	Diagnostic module							

PROFIsafe data bytes
(safe input/output area)

A

Assignment of PROFIsafe in input area of the bus master

Byte n+0	–	–	–	SI5	SI4	SI3	–	SI1
Byte n+1	–	–	–	–	–	–	SI10	SI9
Byte n+2	PROFIsafe internal (control byte)							
Byte n+3	PROFIsafe internal (ser. no.)							
Byte n+4	PROFIsafe internal (CRC2)							
Byte n+5	PROFIsafe internal (CRC2)							
SI1	Emergency stop S93							
SI3	Door position (T)							
SI4	Bolt position (R)							
SI5	Guard locking (Z)							
SI9	SK (T **AND** R)							
SI10	ÜK (T **AND** R **AND** Z)							

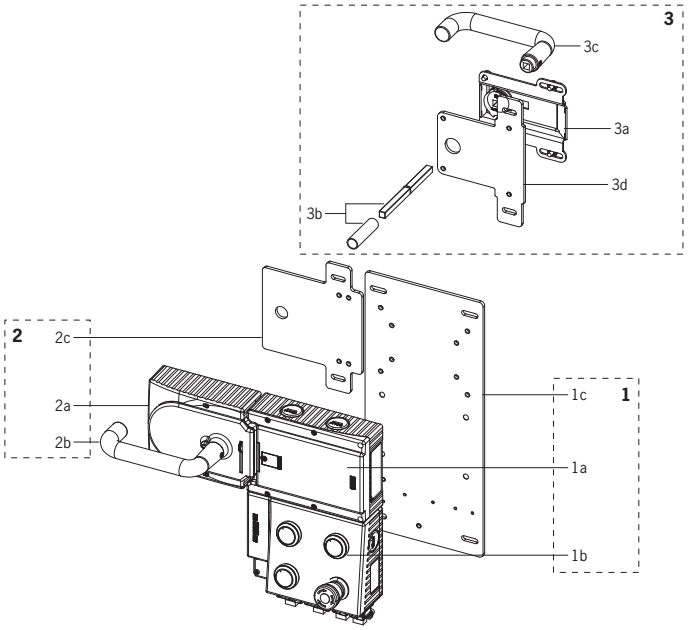
Assignment of PROFIsafe in output area of the bus master

Byte n+0	–	–	–	–	–	–	–	SO1
Byte n+1	–	–	–	–	–	–	–	–
Byte n+2	PROFIsafe internal (control byte)							
Byte n+3	PROFIsafe internal (ser. no.)							
Byte n+4	PROFIsafe internal (CRC2)							
Byte n+5	PROFIsafe internal (CRC2)							
SO1	Guard locking solenoid							

Locking sets MGB-L1...-PN... (guard locking by spring force)
with 4 controls or indicators

Cat. 4 PLe

System components and spare parts



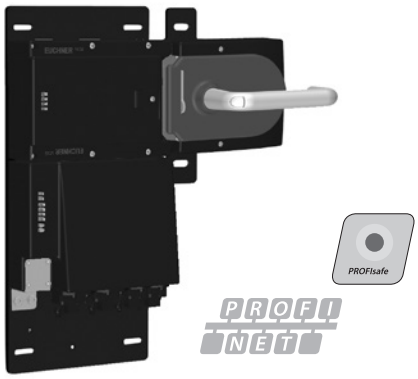
Ordering table for system components, spare parts and accessories

Notice: It is only possible to order spare parts that are given in the following ordering table with an order number.

Item	Designation	Use/description	Order No./item
1	**System unit MGB-L1B-...** (guard locking by spring force)	For doors hinged on the left	**121867** MGB-L1B-PNC-L-121867
		For doors hinged on the right	**121865** MGB-L1B-PNC-R-121865
	comprising:		
1a	- Evaluation module		-
1b	- Bus module		-
1c	- Mounting plate		
2	**Handle module MGB-H-...** comprising:	For doors hinged on the left	**111839** MGB-H-AA1A6-L-111839
		For doors hinged on the right	**111838** MGB-H-AA1A6-R-111838
2a	- Handle module		-
2b	- Door handle	Color silver	**123926** MGB-A-DOORHANDLE-S2-123926
2c	- Mounting plate	For handle module MGB-H-...	**109491** MGB-A-MOUNTINGPLATE-H-109491
3	**Escape release MGB-E-...** comprising:		**106051** MGB-E-A2-106051
3a	- Escape release		-
3b	- Escape release shaft	Standard length 118 mm (square 8x8 mm + sleeve)	-
	- Long escape release shaft (instead of item 3b)	Length 250 mm (square 8x8 mm + sleeve 182 mm long)	**106761** MGB-A-ESCAPERELEASESHAFT 250
3c	- Door handle	Color red	**110276** MGB-A-DOORHANDLE-R-110276
3d	- Mounting plate	For escape release MGB-E-...	**109492** MGB-A-MOUNTINGPLATE-E-109492

Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Locking sets MGB-L2...-PN... (guard locking by solenoid force)
without controls or indicators



- **Pre-assembled on mounting plates**
- **Integrated Profinet RT switch**

Details

Profinet connection
Connection via push-pull plugs according to IEC 61076-3-117, variant 14.

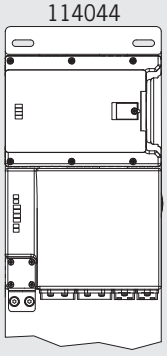
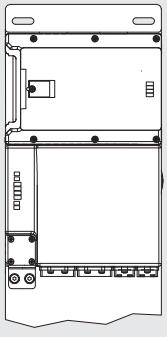
Profinet RT switch
Point-to-point topology network structure due to integrated RT switch.

Flexible usage as interlocking or guard locking
By means of the corresponding evaluation of the safe device data by the control system, usage can be as either interlocking or guard locking (with or without monitoring).

Further information

- **Dimension drawings see p. 121**
- **Technical data see p. 120**
- **Accessories and spare parts see p. 100**
- **www.euchner.com**

Ordering table

Modules in the set						Ordering data, set
Evaluation module and bus module		Data ranges	Handle module Order no. separate module	Escape release Order no. separate module	Door hinge (Factory setting)	Order no./item
Version/configuration scheme Order no. module combination	Controls and indicators					
114044  PROFINET PN	–	A	106049	–	Right	**113988** MGB-L2HB-PNA-R-113988 (Modules pre-assembled on mounting plates)
114045  PROFINET PN	–	A	106221	–	Left	**113989** MGB-L2HB-PNA-L-113989 (Modules pre-assembled on mounting plates)

Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Data ranges

You will require the corresponding GSD file in GSDML format in order to integrate the MGB system:
GSDML-Vx.x-EUCHNER-MGB_110026-YYYYMMDD.xml
You will find the GSD file in the download area at www.euchner.com.
Prior to setup, the GSD file must be imported into the configuration software of the control system (see manual for your control system).

PROFINET data bytes
(unsafe input/output area)

A

Assignment in input area of the bus master

Slot 1/byte 1	ÜK	SK	–	–	–	R	R	T
Slot 2/byte 1	I24	–	–	–	–	–	I18	I17
Slot 1/byte 1	Locking module							
Slot 2/byte 1	Diagnostic module							

Assignment in output area of the bus master

Slot 1/byte 1	–	–	–	–	–	–	–	Sol.
Slot 2/byte 1	–	–	–	–	–	–	O18	O17
Slot 1/byte 1	Guard locking solenoid							
Slot 2/byte 1	Diagnostic module							

PROFIsafe data bytes
(safe input/output area)

A

Assignment of PROFIsafe in input area of the bus master

Byte n+0	–	–	–	SI5	SI4	SI3	–	–
Byte n+1	–	–	–	–	–	–	SI10	SI9
Byte n+2	PROFIsafe internal (control byte)							
Byte n+3	PROFIsafe internal (ser. no.)							
Byte n+4	PROFIsafe internal (CRC2)							
Byte n+5	PROFIsafe internal (CRC2)							
SI3	Door position (T)							
SI4	Bolt position (R)							
SI5	Guard locking (Z)							
SI9	SK (T **AND** R)							
SI10	ÜK (T **AND** R **AND** Z)							

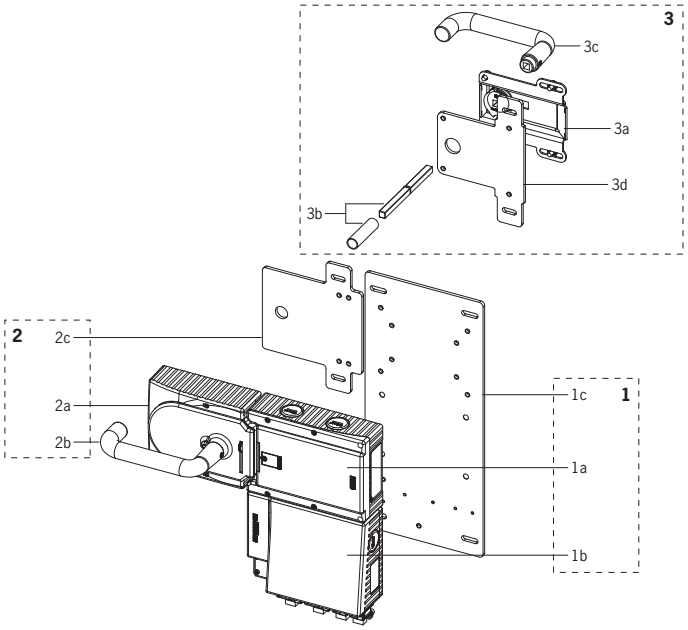
Assignment of PROFIsafe in output area of the bus master

Byte n+0	–	–	–	–	–	–	–	SO1
Byte n+1	–	–	–	–	–	–	–	–
Byte n+2	PROFIsafe internal (control byte)							
Byte n+3	PROFIsafe internal (ser. no.)							
Byte n+4	PROFIsafe internal (CRC2)							
Byte n+5	PROFIsafe internal (CRC2)							
SO1	Guard locking solenoid							

Locking sets MGB-L2...-PN... (guard locking by solenoid force)
without controls or indicators

Cat. 4 PLe

System components and spare parts



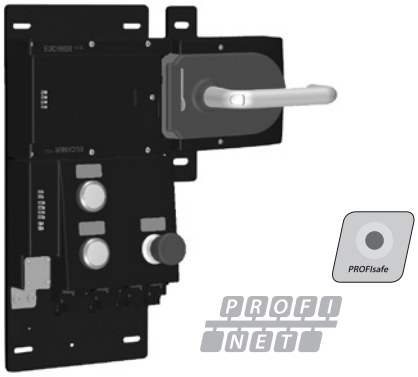
Ordering table for system components, spare parts and accessories

Notice: It is only possible to order spare parts that are given in the following ordering table with an order number.

Item	Designation	Use/description	Order No./item
1	**System unit MGB-L2B-...** (guard locking by solenoid force)	For doors hinged on the left	**114044** MGB-L2B-PNA-L-114044
		For doors hinged on the right	**114045** MGB-L2B-PNA-R-114045
	comprising:		
1a	- Evaluation module		-
1b	- Bus module		-
1c	- Mounting plate		
2	**Handle module MGB-H-...** comprising:	For doors hinged on the left	**106221** MGB-H-AA1A2-L-106221
		For doors hinged on the right	**106049** MGB-H-AA1A2-R-106049
2a	- Handle module		-
2b	- Door handle	Color silver	**123926** MGB-A-DOORHANDLE-S2-123926
2c	- Mounting plate	For handle module MGB-H-...	**109491** MGB-A-MOUNTINGPLATE-H-109491
3	**Escape release MGB-E-...** comprising:		**106051** MGB-E-A2-106051
3a	- Escape release		-
3b	- Escape release shaft	Standard length 118 mm (square + sleeve)	-
	- Long escape release shaft (instead of item 3b)	Length 250 mm (square 8x8 mm + sleeve 182 mm long)	**106761** MGB-A-ESCAPERELEASESHAFT 250
3c	- Door handle	Color red	**110276** MGB-A-DOORHANDLE-R-110276
3d	- Mounting plate	For escape release MGB-E-...	**109492** MGB-A-MOUNTINGPLATE-E-109492

Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Locking sets MGB-L2...-PN... (guard locking by solenoid force)
with 3 controls or indicators



- **Integrated controls and indicators**
- **Pre-assembled on mounting plates**
- **Integrated Profinet RT switch**

Details

Profinet connection
Connection via push-pull plugs according to IEC 61076-3-117, variant 14, or 7/8" plugs according to ANSI/B93.55M-1981 and M12 plugs according to IEC 61076-2-101.

Profinet RT switch
Point-to-point topology network structure due to integrated RT switch.

Flexible usage as interlocking or guard locking
By means of the corresponding evaluation of the safe device data by the control system, usage can be as either interlocking or guard locking (with or without monitoring).

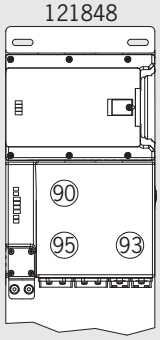
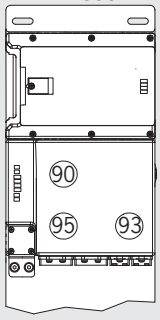
Illuminated emergency stop
Emergency stop with illumination that can be controlled as required.

Lens set
The color of the pushbuttons can be selected using the lens set 120344 included.

Further information

- **Dimension drawings see p. 121**
- **Technical data see p. 120**
- **Accessories and spare parts see p. 105**
- **www.euchner.com**

Ordering table

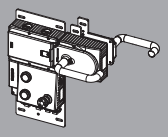
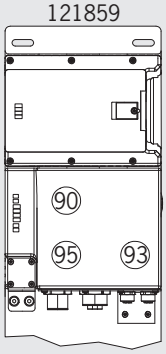
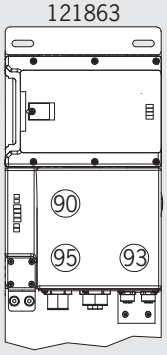
Modules in the set									Ordering data, set
Version/configuration scheme Order no. module combination	Evaluation module and bus module	Controls and indicators			Data ranges	Handle module Order no. separate module	Escape release Order no. separate module	Door hinge (Factory setting)	Order no./item
		S93 H93	S90 H90	S95 H95					
PROFINET PN	121848  Incl. adhesive labels, push-pull plugs		 *)	 *)	A	106049	–	Right	**121849** MGB-L2HB-PNA-R-121849 (Modules pre-assembled on mounting plates)
	121853  Incl. adhesive labels, push-pull plugs					106221		Left	**121854** MGB-L2HB-PNA-L-121854 (Modules pre-assembled on mounting plates)

* The color can be selected using the lens set included.

(Continued on next page)

Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Ordering table (continued)

Modules in the set									Ordering data, set
	Evaluation module and bus module				Data ranges	Handle module Order no. separate module	Escape release Order no. separate module	Door hinge (Factory setting)	 Order no./item
	Version/configuration scheme Order no. module combination	Controls and indicators							
		S93	S90	S95					
		H93	H90	H95					
PROFINET PN	121859  Pre-assembled on mounting plate, incl. adhesive labels, 7/8" plugs and M12 plugs	STOP	*)	*)	A	106049 Pre-assembled on mounting plate	–	Right	**121860** MGB-L2HB-PNA-R-121860
	121863  Pre-assembled on mounting plate, incl. adhesive labels, 7/8" plugs and M12 plugs					106221 Pre-assembled on mounting plate		Left	**121864** MGB-L2HB-PNA-L-121864

* The color can be selected using the lens set included.

Locking sets MGB-L2...-PN... (guard locking by solenoid force)
with 3 controls or indicators

Data ranges

You will require the corresponding GSD file in GSDML format in order to integrate the MGB system:
GSDML-Vx.x-EUCHNER-MGB_110026-YYYYMMDD.xml
You will find the GSD file in the download area at www.euchner.com.
Prior to setup, the GSD file must be imported into the configuration software of the control system (see manual for your control system).

PROFINET data bytes
(unsafe input/output area)

A

Assignment in input area of the bus master

Slot 1/byte 0	–	–	S95.1	–	–	–	–	S90.1
Slot 1/byte 1	–	–	–	–	–	–	–	–
Slot 2/byte 0	–	–	–	–	–	–	–	S93
Slot 3/byte 0	ÜK	SK	–	–	–	R	R	T
Slot 4/byte 0	I24	–	–	–	–	I19	I18	I17
Slot 1/byte 0	Pushbutton S90 - S95 1st contact							
Slot 1/byte 1	Pushbutton S90 - S95 2nd contact							
Slot 2/byte 0	Emergency stop monitoring contact							
Slot 3/byte 0	Locking module							
Slot 4/byte 0	Diagnostic module							

Assignment in output area of the bus master

Slot 1/byte 0	–	–	H95	–	–	–	–	H90
Slot 2/byte 0	–	–	–	–	–	–	–	H93
Slot 3/byte 0	–	–	–	–	–	–	–	Sol.
Slot 4/byte 0	–	–	–	–	–	–	O18	O17
Slot 1/byte 0	LEDs H90 - H95							
Slot 2/byte 0	Emergency stop LED							
Slot 3/byte 0	Guard locking solenoid							
Slot 4/byte 0	Diagnostic module							

PROFIsafe data bytes
(safe input/output area)

A

Assignment of PROFIsafe in input area of the bus master

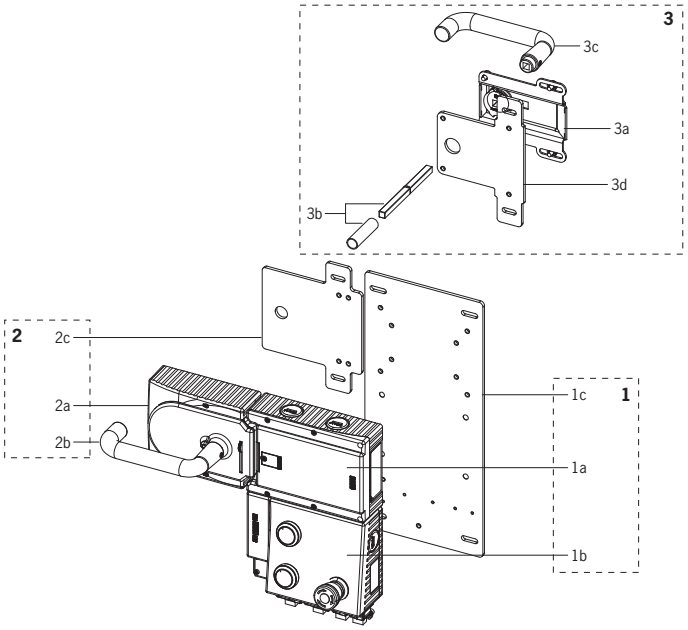
Byte n+0	–	–	–	SI5	SI4	SI3	–	SI1
Byte n+1	–	–	–	–	–	–	SI10	SI9
Byte n+2	PROFIsafe internal (control byte)							
Byte n+3	PROFIsafe internal (ser. no.)							
Byte n+4	PROFIsafe internal (CRC2)							
Byte n+5	PROFIsafe internal (CRC2)							
SI1	Emergency stop S93							
SI3	Door position (T)							
SI4	Bolt position (R)							
SI5	Guard locking (Z)							
SI9	SK (T **AND** R)							
SI10	ÜK (T **AND** R **AND** Z)							

Assignment of PROFIsafe in output area of the bus master

Byte n+0	–	–	–	–	–	–	–	SO1
Byte n+1	–	–	–	–	–	–	–	–
Byte n+2	PROFIsafe internal (control byte)							
Byte n+3	PROFIsafe internal (ser. no.)							
Byte n+4	PROFIsafe internal (CRC2)							
Byte n+5	PROFIsafe internal (CRC2)							
SO1	Guard locking solenoid							

Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

System components and spare parts

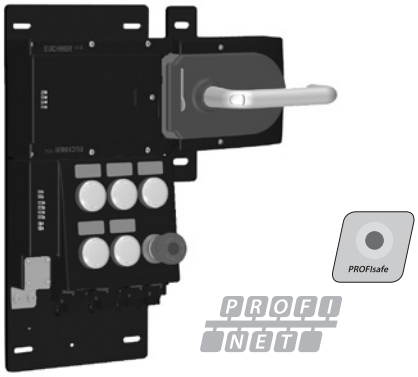


Ordering table for system components, spare parts and accessories

Notice: It is only possible to order spare parts that are given in the following ordering table with an order number.

Item	Designation	Use/description	Order No./item
1	**System unit MGB-L2B-...** (guard locking by solenoid force)	For doors hinged on the left	**121853** MGB-L2B-PNA-L-121853
			121863 MGB-L2B-PNA-L-121863
		For doors hinged on the right	**121848** MGB-L2B-PNA-R-121848
			121859 MGB-L2B-PNA-R-121859
	comprising:		
1a	- Evaluation module		-
1b	- Bus module		-
1c	- Mounting plate		
2	**Handle module MGB-H-...** comprising:	For doors hinged on the left	**106221** MGB-H-AA1A2-L-106221
		For doors hinged on the right	**106049** MGB-H-AA1A2-R-106049
2a	- Handle module		-
2b	- Door handle	Color silver	**123926** MGB-A-DOORHANDLE-S2-123926
2c	- Mounting plate	For handle module MGB-H-...	**109491** MGB-A-MOUNTINGPLATE-H-109491
3	**Escape release MGB-E-...** comprising:		**106051** MGB-E-A2-106051
3a	- Escape release		-
3b	- Escape release shaft	Standard length 118 mm (square + sleeve)	-
	- Long escape release shaft (instead of item 3b)	Length 250 mm (square 8x8 mm + sleeve 182 mm long)	**106761** MGB-A-ESCAPERELEASESHAFT 250
3c	- Door handle	Color red	**110276** MGB-A-DOORHANDLE-R-110276
3d	- Mounting plate	For escape release MGB-E-...	**109492** MGB-A-MOUNTINGPLATE-E-109492

Locking sets MGB-L2...-PN... (guard locking by solenoid force)
with 6 controls or indicators



- **Integrated controls and indicators**
- **Pre-assembled on mounting plates**
- **Integrated Profinet RT switch**

Details

Profinet connection
Connection via push-pull plugs according to IEC 61076-3-117, variant 14.

Profinet RT switch
Point-to-point topology network structure due to integrated RT switch.

Flexible usage as interlocking or guard locking
By means of the corresponding evaluation of the safe device data by the control system, usage can be as either interlocking or guard locking (with or without monitoring).

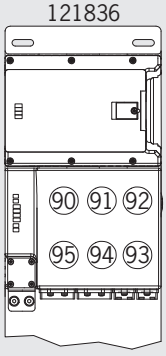
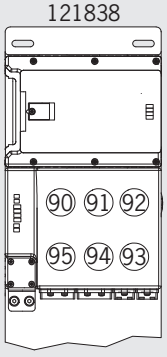
Illuminated emergency stop
Emergency stop with illumination that can be controlled as required.

Lens set
The color of the pushbuttons can be selected using the lens set 120344 included.

Further information

- **Dimension drawings see p. 121**
- **Technical data see p. 120**
- **Accessories and spare parts see p. 108**
- **www.euchner.com**

Ordering table

Modules in the set											Ordering data, set
Version/configuration scheme Order no. module combination	Evaluation module and bus module	Controls and indicators						Data ranges	Handle module Order no. separate module	Escape release Order no. separate module	Door hinge (Factory setting)	Order no./item
		S93	S90	S91	S92	S94	S95					
		H93	H90	H91	H92	H94	H94					
PROFINET PN	121836  Incl. adhesive labels	STOP	*)	*)	*)	*)	*)	A	118838	–	Right	**121837** MGB-L2HB-PNA-R-121837 (Modules pre-assembled on mounting plates)
	121838  Incl. adhesive labels								118839		Left	**121839** MGB-L2HB-PNA-L-121839 (Modules pre-assembled on mounting plates)

* The color can be selected using the lens set included.

Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Data ranges

You will require the corresponding GSD file in GSDML format in order to integrate the MGB system:
GSDML-Vx.x-EUCHNER-MGB_110026-YYYYMMDD.xml
You will find the GSD file in the download area at www.euchner.com.
Prior to setup, the GSD file must be imported into the configuration software of the control system (see manual for your control system).

PROFINET data bytes
(unsafe input/output area)

A

Assignment in input area of the bus master

Slot 1/byte 0	–	–	S95.1	S94.1	–	S92.1	S91.1	S90.1
Slot 1/byte 1	–	–	–	–	–	–	–	–
Slot 2/byte 0	–	–	–	–	–	–	–	S93
Slot 3/byte 0	ÜK	SK	–	–	–	R	R	T
Slot 4/byte 0	I24	–	–	–	–	I19	I18	I17
Slot 1/byte 0	Pushbutton S90 - S95 1st contact							
Slot 1/byte 1	Pushbutton S90 - S95 2nd contact							
Slot 2/byte 0	Emergency stop monitoring contact							
Slot 3/byte 0	Locking module							
Slot 4/byte 0	Diagnostic module							

Assignment in output area of the bus master

Slot 1/byte 0	–	–	H95	H94	–	H92	H91	H90
Slot 2/byte 0	–	–	–	–	–	–	–	H93
Slot 3/byte 0	–	–	–	–	–	–	–	Sol.
Slot 4/byte 0	–	–	–	–	–	–	O18	O17
Slot 1/byte 0	LEDs H90 - H95							
Slot 2/byte 0	Emergency stop LED							
Slot 3/byte 0	Guard locking solenoid							
Slot 4/byte 0	Diagnostic module							

PROFIsafe data bytes
(safe input/output area)

A

Assignment of PROFIsafe in input area of the bus master

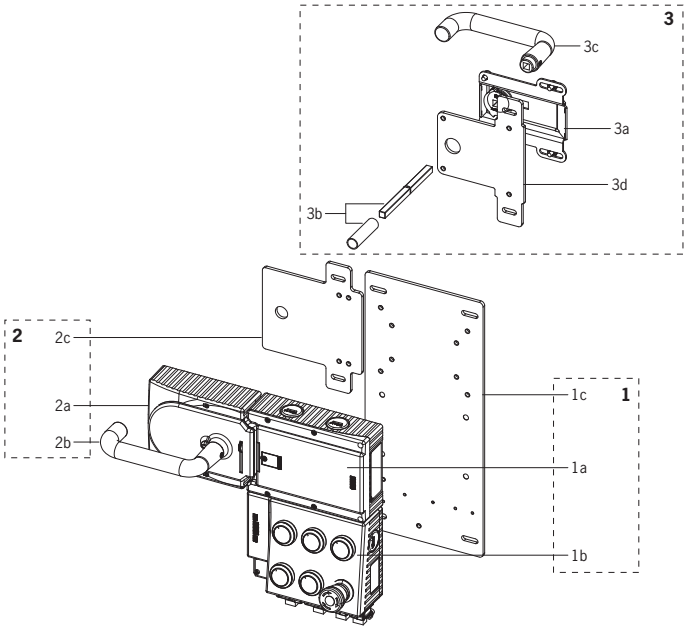
Byte n+0	–	–	–	SI5	SI4	SI3	–	SI1
Byte n+1	–	–	–	–	–	–	SI10	SI9
Byte n+2	PROFIsafe internal (control byte)							
Byte n+3	PROFIsafe internal (ser. no.)							
Byte n+4	PROFIsafe internal (CRC2)							
Byte n+5	PROFIsafe internal (CRC2)							
SI1	Emergency stop S93							
SI3	Door position (T)							
SI4	Bolt position (R)							
SI5	Guard locking (Z)							
SI9	SK (T **AND** R)							
SI10	ÜK (T **AND** R **AND** Z)							

Assignment of PROFIsafe in output area of the bus master

Byte n+0	–	–	–	–	–	–	–	SO1
Byte n+1	–	–	–	–	–	–	–	–
Byte n+2	PROFIsafe internal (control byte)							
Byte n+3	PROFIsafe internal (ser. no.)							
Byte n+4	PROFIsafe internal (CRC2)							
Byte n+5	PROFIsafe internal (CRC2)							
SO1	Guard locking solenoid							

Locking sets MGB-L2...-PN... (guard locking by solenoid force)
with 6 controls or indicators

System components and spare parts



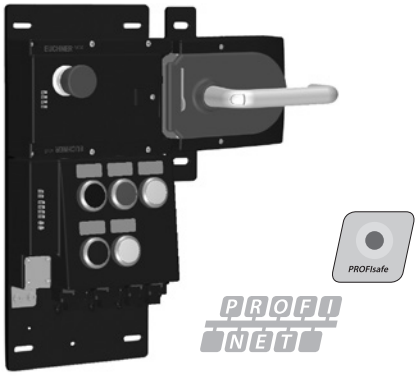
Ordering table for system components, spare parts and accessories

Notice: It is only possible to order spare parts that are given in the following ordering table with an order number.

Item	Designation	Use/description	Order No./item
1	**System unit MGB-L2B-...** (guard locking by spring force)	For doors hinged on the left	**121838** MGB-L2B-PNA-L-121838
		For doors hinged on the right	**121836** MGB-L2B-PNA-R-121836
	comprising:		
1a	- Evaluation module		-
1b	- Bus module		-
1c	- Mounting plate		
2	**Handle module MGB-H-...** comprising:	For doors hinged on the left	**111839** MGB-H-AA1A6-L-111839
		For doors hinged on the right	**111838** MGB-H-AA1A6-R-111838
2a	- Handle module		-
2b	- Door handle	Color silver	**123926** MGB-A-DOORHANDLE-S2-123926
2c	- Mounting plate	For handle module MGB-H-...	**109491** MGB-A-MOUNTINGPLATE-H-109491
3	**Escape release MGB-E-...** comprising:		**106051** MGB-E-A2-106051
3a	- Escape release		-
3b	- Escape release shaft	Standard length 118 mm (square 8x8 mm + sleeve)	-
	- Long escape release shaft (instead of item 3b)	Length 250 mm (square 8x8 mm + sleeve 182 mm long)	**106761** MGB-A-ESCAPERELEASESHAFT 250
3c	- Door handle	Color red	**110276** MGB-A-DOORHANDLE-R-110276
3d	- Mounting plate	For escape release MGB-E-...	**109492** MGB-A-MOUNTINGPLATE-E-109492

Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Locking sets MGB-L2...-PN... (guard locking by solenoid force)
with 6 controls or indicators



- **Integrated controls and indicators**
- **Pre-assembled on mounting plates**
- **Integrated Profinet RT switch**

Details

Profinet connection
Connection via push-pull plugs according to IEC 61076-3-117, variant 14.

Profinet RT switch
Point-to-point topology network structure due to integrated RT switch.

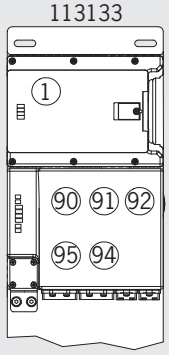
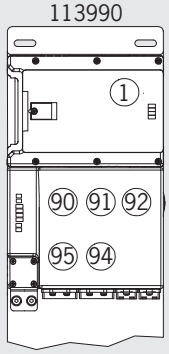
Flexible usage as interlocking or guard locking
By means of the corresponding evaluation of the safe device data by the control system, usage can be as either interlocking or guard locking (with or without monitoring).

Illuminated emergency stop
Emergency stop with illumination that can be controlled as required.

Further information

- **Dimension drawings see p. 121**
- **Technical data see p. 120**
- **Accessories and spare parts see p. 112**
- **www.euchner.com**

Ordering table

Modules in the set												Ordering data, set
Version/configuration scheme Order no. module combination	Evaluation module and bus module	Controls and indicators						Data ranges	Handle module Order no. separate module	Escape release Order no. separate module	Door hinge (Factory setting)	Order no./item
		S1 H1	S90	S91	H92	S94 H94	S95 H94					
PN	113133  Incl. adhesive labels	 STOP	 gn	 rd	 ye	 wh	 bu	A	106049	–	Right	**113134** MGB-L2HB-PNA-R-113134 (Modules pre-assembled on mounting plates)
	113990  Incl. adhesive labels								106221		Left	**113991** MGB-L2HB-PNA-L-113991 (Modules pre-assembled on mounting plates)

Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Data ranges

You will require the corresponding GSD file in GSDML format in order to integrate the MGB system:
GSDML-Vx.x-EUCHNER-MGB_110026-YYYYMMDD.xml
You will find the GSD file in the download area at www.euchner.com.
Prior to setup, the GSD file must be imported into the configuration software of the control system (see manual for your control system).

PROFINET data bytes
(unsafe input/output area)

A

Assignment in input area of the bus master

Slot 1/byte 1	–	–	S95.1	S94.1	–	–	S91.1	S90.1
Slot 1/byte 2	–	–	–	–	–	–	–	–
Slot 2/byte 1	–	–	–	–	–	–	–	S1
Slot 4/byte 1	I24	–	–	–	–	I19	I18	I17
Slot 1/byte 1	Pushbutton S90 - S95 1st contact							
Slot 1/byte 2	Pushbutton S90 - S95 2nd contact							
Slot 2/byte 1	Emergency stop monitoring contact							
Slot 4/byte 1	Diagnostic module							

Assignment in output area of the bus master

Slot 1/byte 1	–	–	H95	H94	–	H92	–	–
Slot 2/byte 1	–	–	–	–	–	–	–	H1
Slot 3/byte 1	–	–	–	–	–	–	–	Sol.
Slot 4/byte 1	–	–	–	–	–	–	O18	O17
Slot 1/byte 1	LEDs H90 - H95							
Slot 2/byte 1	Emergency stop LED							
Slot 3/byte 1	Guard locking solenoid							
Slot 4/byte 1	Diagnostic module							

PROFIsafe data bytes
(safe input/output area)

A

Assignment of PROFIsafe in input area of the bus master

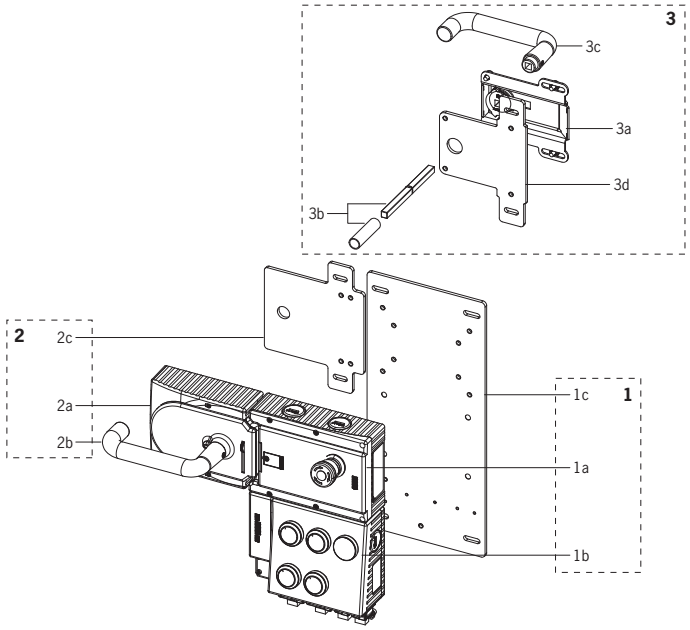
Byte n+0	–	–	–	SI5	SI4	SI3	–	SI1
Byte n+1	–	–	–	–	–	–	SI10	SI9
Byte n+2	PROFIsafe internal (control byte)							
Byte n+3	PROFIsafe internal (ser. no.)							
Byte n+4	PROFIsafe internal (CRC2)							
Byte n+5	PROFIsafe internal (CRC2)							
SI1	Emergency stop S1							
SI3	Door position (T)							
SI4	Bolt position (R)							
SI5	Guard locking (Z)							
SI9	SK (T **AND** R)							
SI10	ÜK (T **AND** R **AND** Z)							

Assignment of PROFIsafe in output area of the bus master

Byte n+0	–	–	–	–	–	–	–	SO1
Byte n+1	–	–	–	–	–	–	–	–
Byte n+2	PROFIsafe internal (control byte)							
Byte n+3	PROFIsafe internal (ser. no.)							
Byte n+4	PROFIsafe internal (CRC2)							
Byte n+5	PROFIsafe internal (CRC2)							
SO1	Guard locking solenoid							

Locking sets MGB-L2...-PN... (guard locking by solenoid force)
with 6 controls or indicators

System components and spare parts



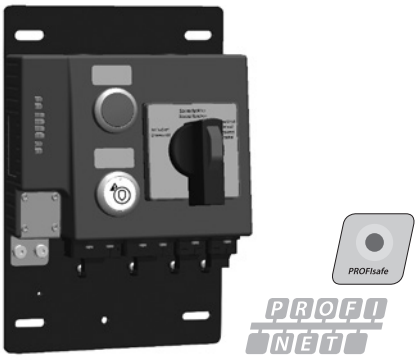
Ordering table for system components, spare parts and accessories

Notice: It is only possible to order spare parts that are given in the following ordering table with an order number.

Item	Designation	Use/description	Order No./item
1	**System unit MGB-L2B-...** (guard locking by solenoid force)	For doors hinged on the left	**113990** MGB-L2B-PNA-L-113990
		For doors hinged on the right	**113133** MGB-L2B-PNA-R-113133
	comprising:		
1a	- Evaluation module		-
1b	- Bus module		-
1c	- Mounting plate		
2	**Handle module MGB-H-...** comprising:	For doors hinged on the left	**106221** MGB-H-AA1A2-L-106221
		For doors hinged on the right	**106049** MGB-H-AA1A2-R-106049
2a	- Handle module		-
2b	- Door handle	Color silver	**123926** MGB-A-DOORHANDLE-S2-123926
2c	- Mounting plate	For handle module MGB-H-...	**109491** MGB-A-MOUNTINGPLATE-H-109491
3	**Escape release MGB-E-...** comprising:		**106051** MGB-E-A2-106051
3a	- Escape release		-
3b	- Escape release shaft	Standard length 118 mm (square + sleeve)	-
	- Long escape release shaft (instead of item 3b)	Length 250 mm (square 8x8 mm + sleeve 182 mm long)	**106761** MGB-A-ESCAPERELEASESHAFT 250
3c	- Door handle	Color red	**110276** MGB-A-DOORHANDLE-R-110276
3d	- Mounting plate	For escape release MGB-E-...	**109492** MGB-A-MOUNTINGPLATE-E-109492

Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Control modules MGB-...-PN



- **Pre-assembled on mounting plates**
- **Integrated Profinet RT switch**

Details

Profinet connection
Connection via push-pull plugs according to IEC 61076-3-117, variant 14.

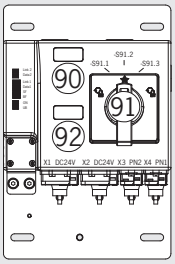
Profinet RT switch
Point-to-point topology network structure due to integrated RT switch.

Selector switch
- Selector switch with 3 positions (form V, 2x45°). The switch latches in all three positions.
- Selector switch illuminated with 3 positions (form V, 2x60°). The switch latches in three positions. Switch position only left and right. Both contacts are open in center position.

Further information

- **Dimension drawings see p. 121**
- **Technical data see p. 120**
- **Accessories and spare parts see p. 63**
- **www.euchner.com**

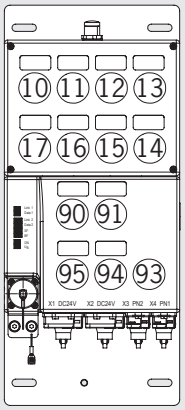
Ordering table

Version/configuration scheme		Bus module and/or control module: Controls and indicators								Data ranges	Order no./item
		H90	S92	S91	–	–	–	–	–		
			H92		–	–	–	–	–		
PROFI NET PN	 Pre-assembled on mounting plate, incl. adhesive labels	rd	wh	Form V 2x45°	–	–	–	–	–	A	**123759** MGB-B-A1W2A2-PN-123759

(Continued on next page)

Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Ordering table (continued)

Version/configuration scheme		Bus module and/or control module Controls and indicators								Data ranges	Order no./item
		S10	**S11**	**S12**	**S13**	**S14**	**S15**	**S16**	**S17**		
		H10	**H11**	**H12**	**H13**	**H14**	**H15**	**H16**	**H17**		
		wh	wh	wh	wh	Form V, 2x60°	Form V, 2x60°	Form V, 2x60°	Form V, 2x60°		
		S93	**S90**	**S91**	**S94**	**S95**	–	–	–		
			H90	**H91**	**H94**	**H95**	–	–	–		
PROFINET PN	 Pre-assembled on mounting plate, plug connector X14 for enabling switch ZSB077029, socket X6 for stacklight indicator, incl. adhesive labels	STOP	wh	wh	Form V, 2x60°	Form V, 2x60°	–	–	–	B	**114744** MGB-CB-PN-114744

Control modules MGB-...-PN

Data ranges

You will require the corresponding GSD file in GSDML format in order to integrate the MGB system:
GSDML-Vx.x-EUCHNER-MGB_110026-YYYYMMDD.xml
You will find the GSD file in the download area at www.euchner.com.
Prior to setup, the GSD file must be imported into the configuration software of the control system (see manual for your control system).

PROFINET data bytes
(unsafe input/output area)

A

With data structure A

Assignment in input area of the bus master

Slot 1/byte 0	–	–	–	–	–	–	–	–
Slot 1/byte 1	–	–	–	–	S92	–	–	–
Slot 1/byte 2	–	–	I22	–	–	–	–	I17
Slot 1/byte 1	Pushbutton S92							
Slot 1/byte 2	Diagnostic module							

Assignment in output area of the bus master

Slot 1/byte 0	–	–	–	–	–	–	–	–
Slot 1/byte 1	–	–	–	–	H92	H90	–	–
Slot 1/byte 2	–	–	–	–	–	–	–	O17
Slot 1/byte 1	LEDs H91 and H92							
Slot 1/byte 2	Acknowledgment							

With data structure C

Assignment in input area of the bus master

Slot 1/byte 0	–	–	–	–	–	S92	–	–
Slot 1/byte 1	–	–	–	–	–	–	–	–
Slot 2/byte 0	–	–	–	–	–	S91.3	S91.2	S91.1
Slot 3/byte 0	–	–	I22	–	–	–	–	I17
Slot 3/byte 1	–	–	–	–	–	–	–	–

Assignment in output area of the bus master

Slot 1/byte 0	–	–	–	–	–	–	–	H90
Slot 2/byte 0	–	–	–	–	–	–	–	–
Slot 3/byte 0	–	–	–	–	–	–	–	O17
Slot 3/byte 1	–	–	–	–	–	–	–	–
Slot 1/byte 0	LED H90							
Slot 3/byte 0	Acknowledgment							

PROFIsafe data bytes
(safe input/output area)

A

Assignment of PROFIsafe in input area of the bus master

Byte n+0	SI8	SI7	SI6	–	–	–	–	–
Byte n+1	SI16	–	–	–	–	–	–	–
Byte n+2	–	–	–	–	–	–	–	–
Byte n+3	–	–	–	–	–	–	–	–
Byte n+4	PROFIsafe internal (control byte)							
Byte n+5	PROFIsafe internal (ser. no.)							
Byte n+6	PROFIsafe internal (CRC2)							
Byte n+7	PROFIsafe internal (CRC2)							
SI6	Pushbutton S91 position S91.1 (left)							
SI7	Pushbutton S91 position S91.2 (center)							
SI8	Pushbutton S91 position S91.3 (right)							
SI16	Pushbutton S92 (not safe!)							

Assignment of PROFIsafe in output area of the bus master

Byte n+0	–	–	–	–	–	–	–	–
Byte n+1	–	–	–	–	–	–	–	–
Byte n+2	PROFIsafe internal (control byte)							
Byte n+3	PROFIsafe internal (ser. no.)							
Byte n+4	PROFIsafe internal (CRC2)							
Byte n+5	PROFIsafe internal (CRC2)							

Assignment of PROFIsafe in input area of the bus master

Byte n+0	SI8	SI7	SI6	–	–	–	–	–
Byte n+1	–	–	–	–	–	–	–	–
Byte n+2	–	SI23	SI22	–	–	–	–	–
Byte n+3	–	–	–	–	–	–	–	–
Byte n+4	PROFIsafe internal (control byte)							
Byte n+5	PROFIsafe internal (ser. no.)							
Byte n+6	PROFIsafe internal (CRC2)							
Byte n+7	PROFIsafe internal (CRC2)							
SI6	Pushbutton S91 position S91.1 (left)							
SI7	Pushbutton S91 position S91.2 (center)							
SI8	Pushbutton S91 position S91.3 (right)							
SI22	Acknowledgment pushbutton S91 position S91.1 (left)							
SI23	Acknowledgment pushbutton S91 position S91.2 (center)							

Assignment of PROFIsafe in output area of the bus master

Byte n+0	–	–	–	SO4	–	–	–	–
Byte n+1	–	–	–	–	–	–	–	–
Byte n+2	PROFIsafe internal (control byte)							
Byte n+3	PROFIsafe internal (ser. no.)							
Byte n+4	PROFIsafe internal (CRC2)							
Byte n+5	PROFIsafe internal (CRC2)							
SO4	External reset							

Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

PROFINET data bytes
(unsafe input/output area)

B

Assignment in input area of the bus master

Slot 1/byte 0	–	–	S95.1	S94.1	–	–	S91.1	S90.1
Slot 1/byte 1	–	–	S95.2	S94.2	–	–	–	–
Slot 2/byte 0	S17.1	S16.1	S15.1	S14.1	S13.1	S12.1	S11.1	S10.1
Slot 2/byte 1	S17.2	S16.2	S15.2	S14.2	–	–	–	–
Slot 4/byte 1	–	–	–	–	–	–	–	S93
Slot 5/byte 0	+ & –	ZT –	ZT +	–	–	–	–	ZTM
Slot 6/byte 0	–	–	–	–	I20	I19	–	I17
Slot 1/byte 0	Pushbutton S90 - S91 and S94 - S95 1st contact							
Slot 1/byte 1	Pushbutton S94 - S95 2nd contact							
Slot 2/byte 0	Pushbutton S10 - S17 1st contact							
Slot 2/byte 1	Pushbutton S10 - S17 2nd contact							
Slot 4/byte 0	Emergency stop monitoring contact (NHM)							
Slot 5/byte 0	Enabling switch +/– and monitoring contact (ZTM)							
Slot 6/byte 0	Diagnostic module							

Assignment in output area of the bus master

Slot 1/byte 0	–	–	H95	H94	–	–	H91	H90
Slot 2/byte 0	H17	H16	H15	H14	H13	H12	H11	H10
Slot 3/byte 0	–	–	–	O21	O20	O19	O18	O17
Slot 4/byte 1	–	–	–	–	–	–	–	–
Slot 5/byte 0	–	–	–	–	–	–	ZT –	ZT +
Slot 6/byte 0	–	–	–	–	–	–	–	O17
Slot 1/byte 0	LEDs H90 - H95							
Slot 2/byte 0	LEDs H10 - H17							
Slot 3/byte 0	Stacklight module O17 - O21							
Slot 4/byte 0	LED for possible emergency stop (not used)							
Slot 5/byte 0	Enabling switch LEDs +/– (ZT)							
Slot 6/byte 0	Diagnostic module							

PROFIsafe data bytes
(safe input/output area)

B

Assignment of PROFIsafe in input area of the bus master

Byte n+0	–	–	–	–	–	–	SI2	SI1
Byte n+1	–	–	–	–	–	–	–	–
Byte n+2	PROFIsafe internal (control byte)							
Byte n+3	PROFIsafe internal (ser. no.)							
Byte n+4	PROFIsafe internal (CRC2)							
Byte n+5	PROFIsafe internal (CRC2)							
SI1	Emergency stop S93							
SI2	Enabling switch X14							

Assignment of PROFIsafe in output area of the bus master

Byte n+0	–	–	–	–	–	–	–	–
Byte n+1	–	–	–	–	–	–	–	–
Byte n+2	PROFIsafe internal (control byte)							
Byte n+3	PROFIsafe internal (ser. no.)							
Byte n+4	PROFIsafe internal (CRC2)							
Byte n+5	PROFIsafe internal (CRC2)							

Assignment of the terminal plugs

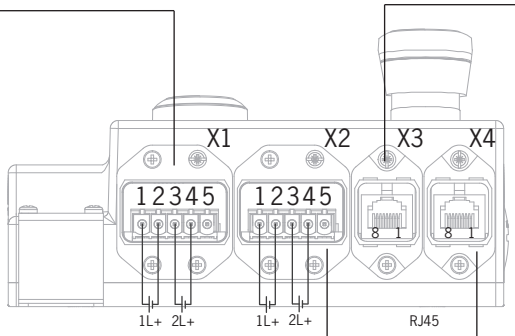
Terminal assignment for version with push-pull plugs

Pin	Description
X1.1	1L+ operating voltage DC 24 V
X1.2	1M operating voltage 0 V
X1.3	2L+ auxiliary voltage* DC 24 V
X1.4	2M auxiliary voltage* 0 V
X1.5	Function earth

X2: For looping through for connected devices

X2.1	1L+ operating voltage DC 24 V
X2.2	1M operating voltage 0 V
X2.3	2L+ auxiliary voltage* DC 24 V
X2.4	2M auxiliary voltage* 0 V
X2.5	Function earth

* The auxiliary voltage is not required for the MGB system



Pin	Description
X3.1	Receive Data +RD
X3.2	Receive Data -RD_N
X3.3	Transmit Data +TD
X3.4	Ground GND (RJ45)
X3.5	Ground GND (RJ45)
X3.6	Transmit Data -TD_N
X3.7	Ground GND (RJ45)
X3.8	Ground GND (RJ45)

X4: For looping through for connected devices (integrated RT switch)

X4.1	Receive Data +RD
X4.2	Receive Data -RD_N
X4.3	Transmit Data +TD
X4.4	Ground GND (RJ45)
X4.5	Ground GND (RJ45)
X4.6	Transmit Data -TD_N
X4.7	Ground GND (RJ45)
X4.8	Ground GND (RJ45)

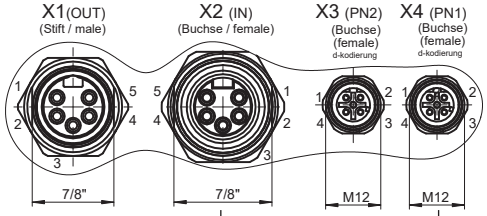
Terminal assignment for version with 7/8" and M12 plugs

Pin	Description
X1.1	N2 auxiliary voltage *0 V
X1.2	N1 operating voltage 0 V
X1.3	Function earth
X1.4	L1 operating voltage DC 24 V
X1.5	L2 auxiliary voltage* DC 24 V

X2: For looping through for connected devices

Pin	Description
X2.1	N2 auxiliary voltage *0 V
X2.2	N1 operating voltage 0 V
X2.3	Function earth
X2.4	L1 operating voltage DC 24 V
X2.5	L2 auxiliary voltage* DC 24 V

* The auxiliary voltage is not required for the MGB system

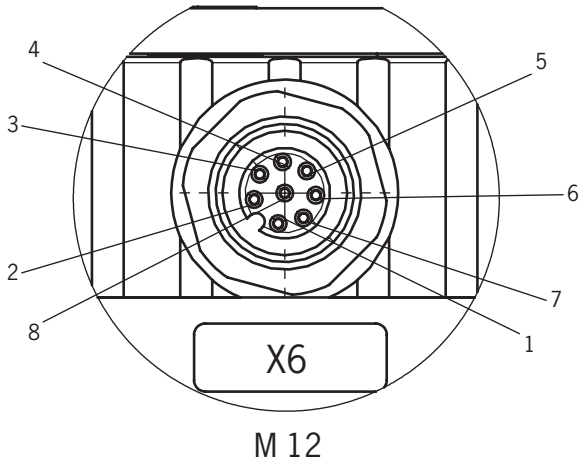


Pin	Description
X3.1	Transmit Data +TD
X3.2	Receive Data +RD
X3.3	Transmit Data -TD_N
X3.4	Receive Data -RD_N
Function earth on plug housing	

Pin	Description
X4.1	Transmit Data +TD
X4.2	Receive Data +RD
X4.3	Transmit Data -TD_N
X4.4	Receive Data -RD_N
Function earth on plug housing	

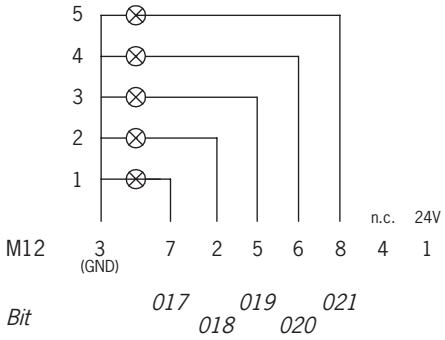
Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Terminal assignment, plug connector X6 for stacklight module

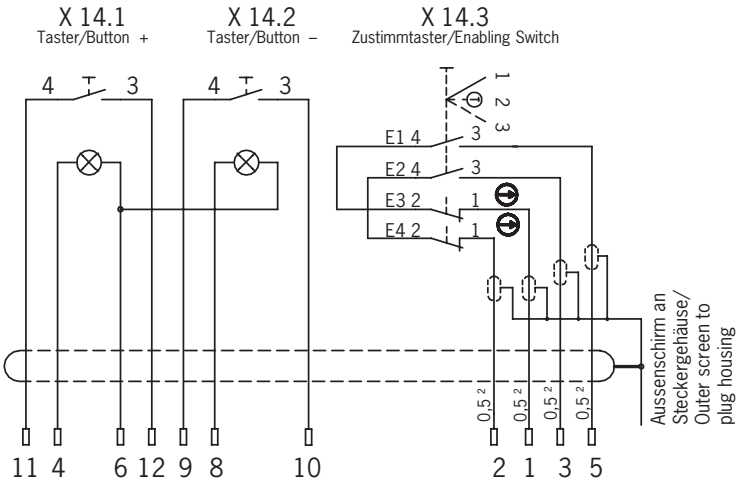


M 12

Built-in plug connector (8-pin/socket), aligned
View of connection side



Terminal assignment, plug connector X14 for enabling switch (e.g. ZSB077029)



MGB-PN

Technical data

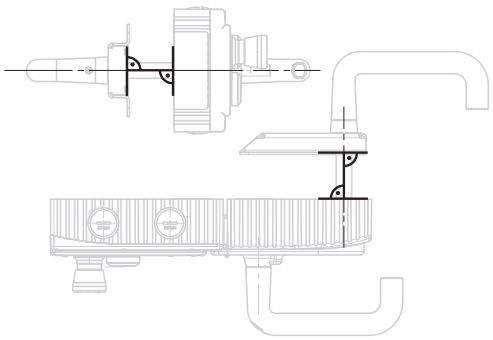
Parameter	Value
s_{ar} max. door position	65 mm
Housing material	Fiber glass reinforced plastic Die-cast zinc, nickel-plated, stainless steel, powder-coated sheet steel
Dimensions	See dimension drawing
Weight of MGB-L.B (bus module, locking module, and operating module with mounting plate)	4.05 kg
Weight of handle module with mounting plate	1.20 kg
Weight of escape release module with mounting plate	1.15 kg
Ambient temperature	-20 ... +55 °C
Degree of protection	IP 54
Safety class	III
Degree of contamination	3
Installation position	Any
Locking force F_{zh}	2000 N
Connection options, power supply	2 x push-pull power [1] or 2 x plug connector 7/8" according to ANSI/B93.55M-1981
Connection, bus	2 x RJ 45, push-pull, according to IEC 61076-3-117 variant 14, screened [1] or 2 x M12 plug connector (d-coded) according to IEC 61076-2-101
Connection cable, bus	Profinet I/O cable, at least cat. 5e
Operating voltage U_B	DC 24 V +10% / -15% (PELV – see electrical connection)
Current consumption, max.	500 mA
Max. feed-in current in the connection block (push-pull plug connector)	4000 mA
Fuse protection for power supply, external	Min. 1 A slow-blow
Safety outputs	Profisafe according to IEC 61784-3-3
Rated insulation voltage U_i	75 V
Rated impulse withstand voltage U_{imp}	0.5 kV
Resilience to vibration and shock	In accordance with EN 60947-5-3
EMC protection requirements	In acc. with EN 61000-4 and DIN EN 61326-3-1
Switching frequency max.	1 Hz
Risk times, max. (switch-off times[2] - Emergency stop - Enabling switch - Operating mode selector switch - Door position - Bolt position - Guard locking	 250 ms 250 ms 220 ms 550 ms 550 ms 550 ms
Reliability values acc. to EN ISO 13849-1	
Category	4 (EN 13849-1:2008-12)
Performance Level	PL e (EN 13849-1:2008-12)
$MTTF_d$ [3]	91 years
DC	99%
Mission time	20 years
PFH_d [3]	2.54×10^{-8} / h
PFH_d for the evaluation of the emergency stop	2.5×10^{-8} / h
B_{10d} [4] - Emergency stop - Enabling switch	 1×10^5 According to switch information from manufacturer

1) The document *PROFINET Cabling and Interconnection Technology* from the PNO aids in the correct selection of wiring.
2) The risk time is the max. time between the change in the input status and the deletion of the corresponding bit in the bus protocol.
3) Fixed failure rate without consideration of faults in wearing parts.
4) Information regarding wearing parts without consideration of fixed failure rates in electronic components.

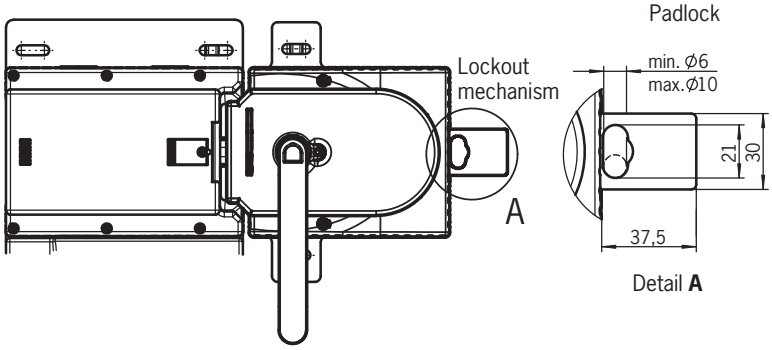
Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

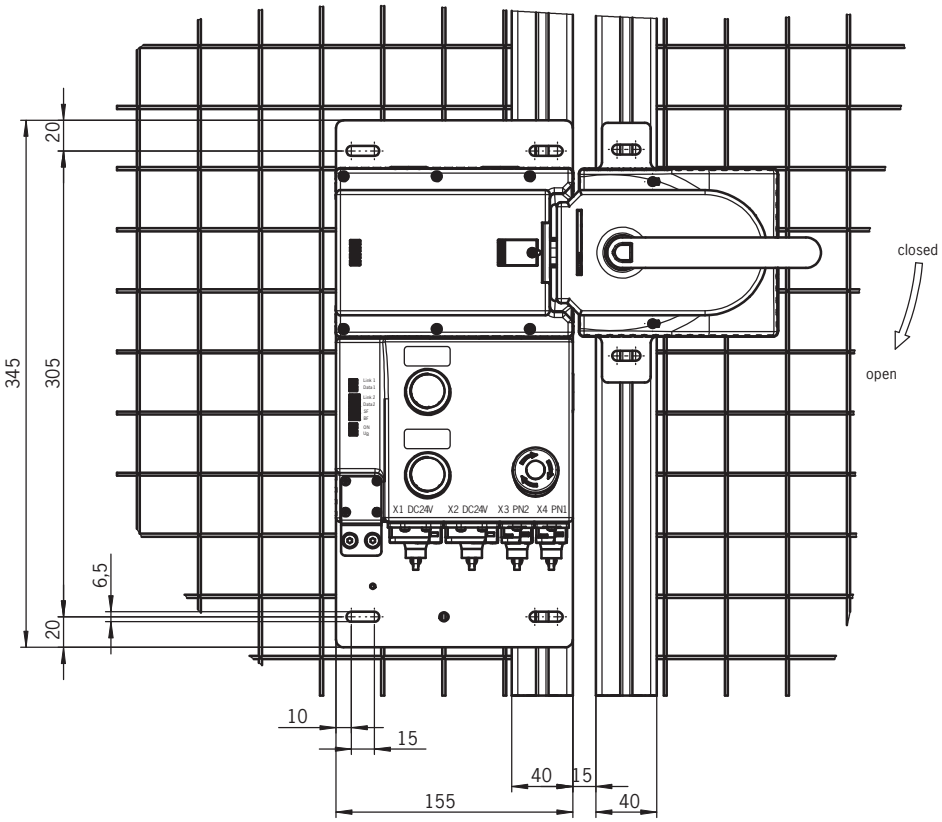
Dimension drawings

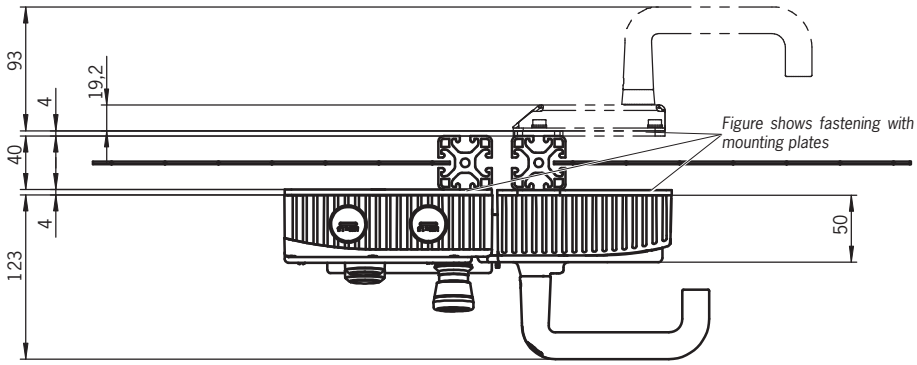
Locking set



Dimensions with automatically extending lockout mechanism (optional)

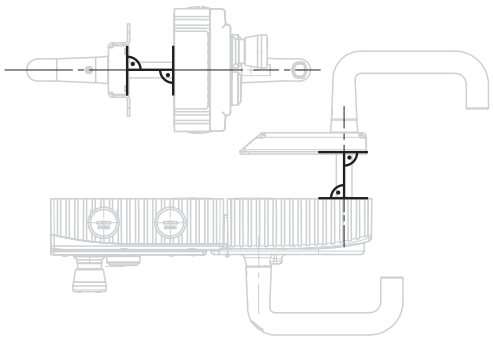




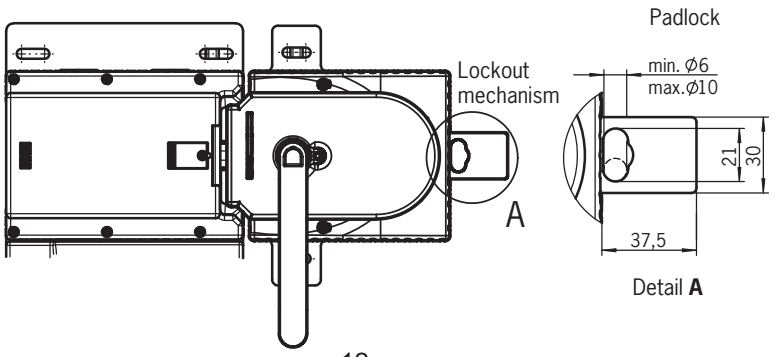


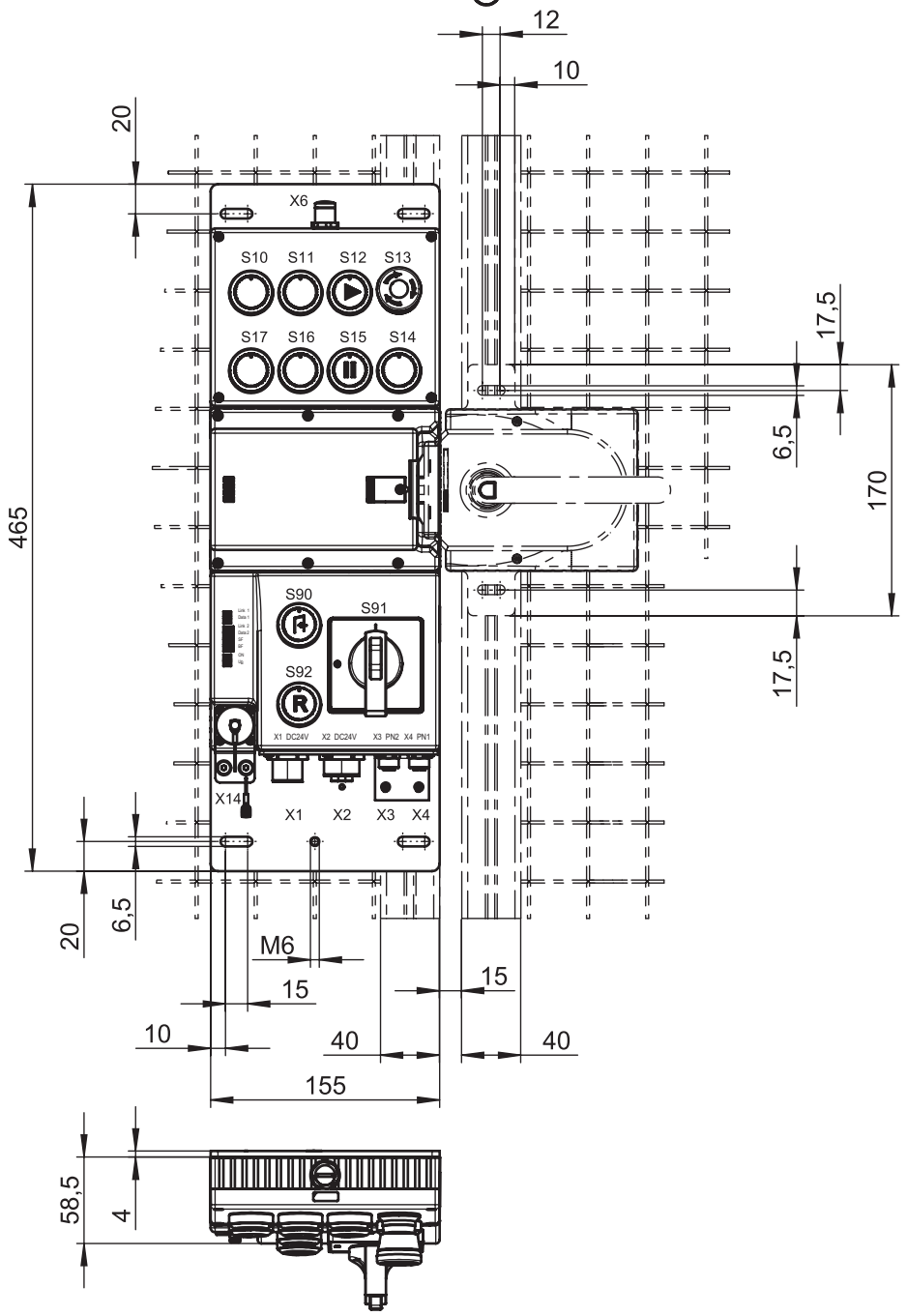
(Figure shows version for doors hinged on the right, pre-assembled on mounting plates)

Locking set



Dimensions with automatically extending lockout mechanism (optional)

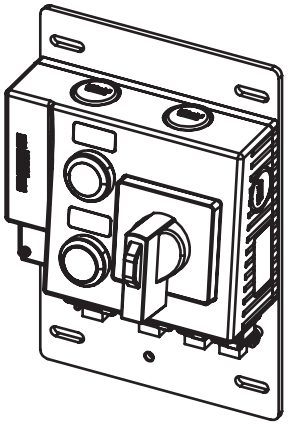


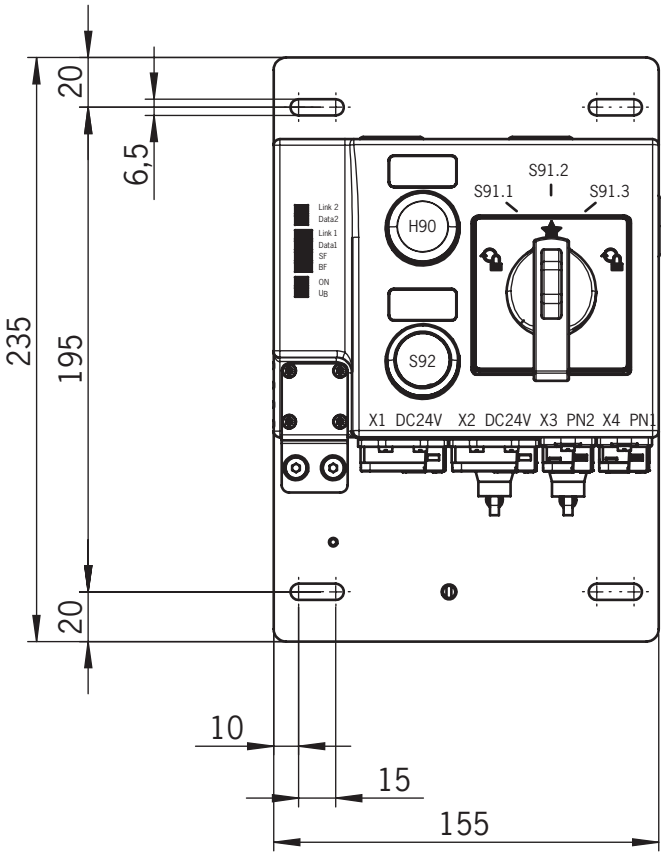


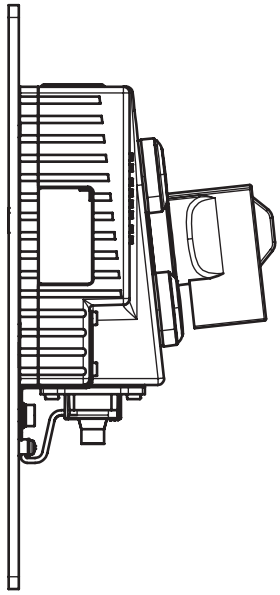
(Figure shows version for doors hinged on the right, pre-assembled on mounting plates)

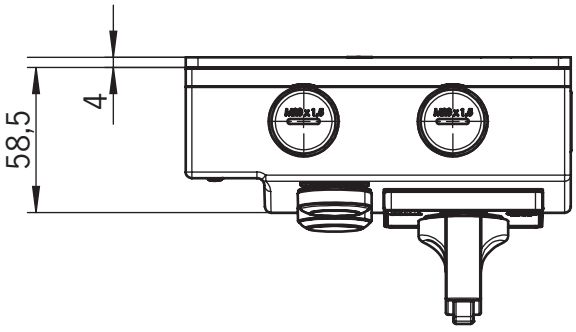
Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Control module MGB-B-...-PN on mounting plate
(example based on MGB-B-A1W2A2-PN-123759)

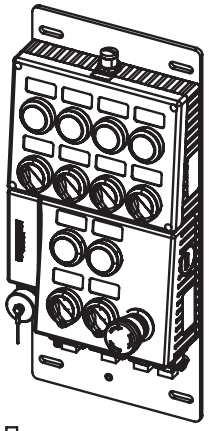


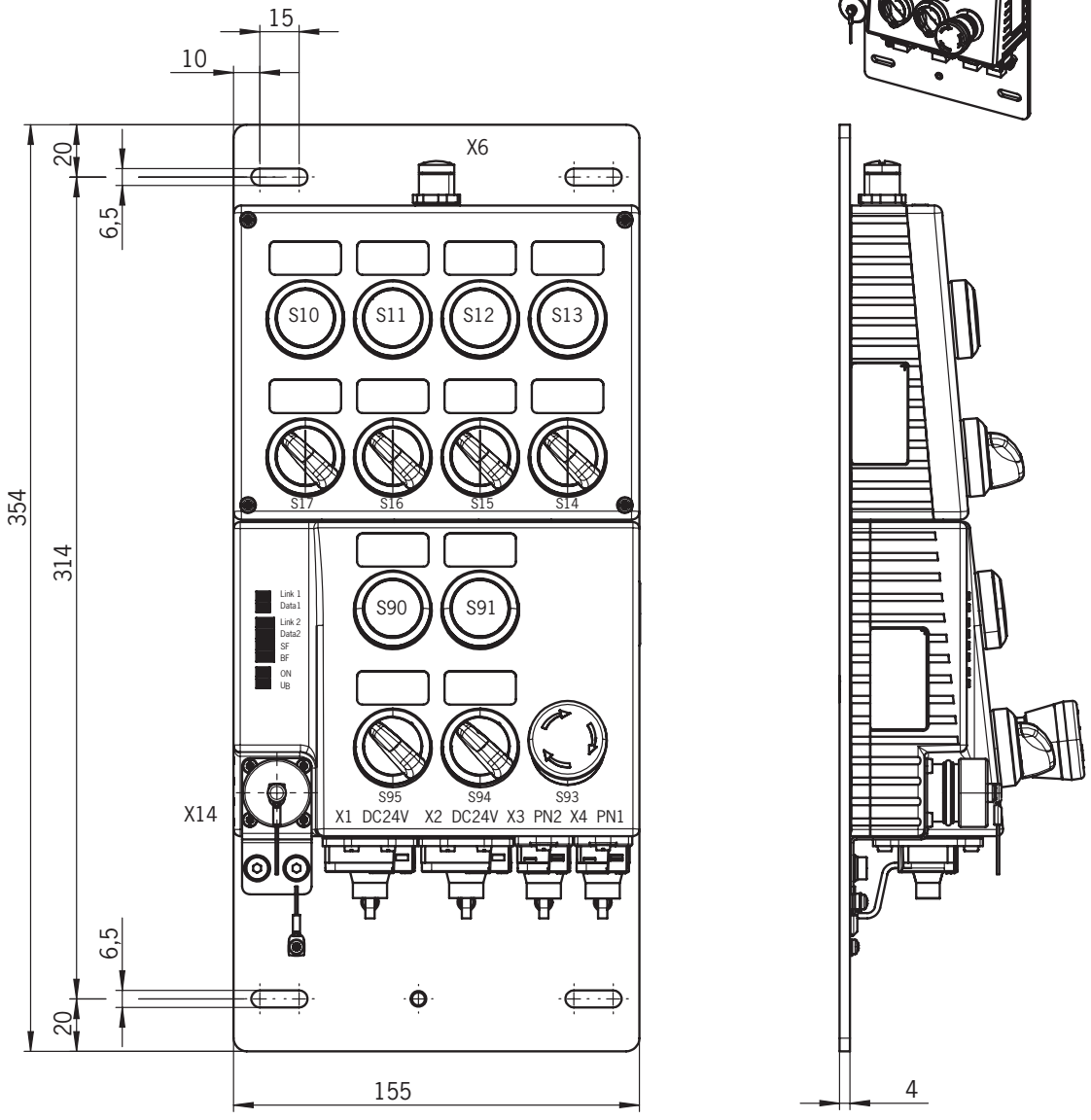


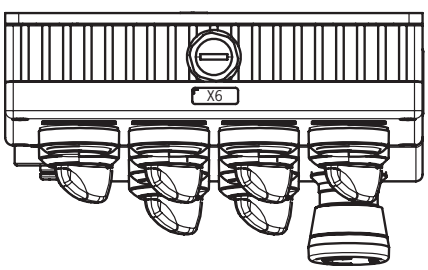




Control module MGB-CB-...-PN on mounting plate
(example based on MGB-CB-PN-114744)







Subject to technical modifications; no responsibility is accepted for the accuracy of this information.

Index by item designation

Item	Order no.	Page
C-M23F19-19XDIFPU01,5-MA-092761	092761	74
C-M23F19-19XDIFPU03,0-MA-092816	092816	74
C-M23F19-19XDIFPU06,0-MA-077014	077014	74
C-M23F19-19XDIFPU08,0-MA-077015	077015	74
C-M23F19-19XDIFPU10,0-MA-092898	092898	74
C-M23F19-19XDIFPU15,0-MA-077016	077016	74
C-M23F19-19XDIFPU20,0-MA-092726	092726	74
C-M23F19-19XDIFPU25,0-MA-092727	092727	74
C-M23F19-19XDIFPU30,0-MA-095993	095993	74
C-M23F19-19XDIFPU40,0-MA-102490	102490	74
C-M23F19-PU01,5-MA-110301	110301	75
C-M23F19-PU03,0-MA-110302	110302	75
C-M23F19-PU06,0-MA-110303	110303	75
C-M23F19-PU10,0-MA-110304	110304	75
C-M23F19-PU15,0-MA-110305	110305	75
C-M23F19-PU20,0-MA-110306	110306	75
C-M23F19-PU25,0-MA-110307	110307	75
C-M23F19-PU30,0-MA-122434	122434	75
C-M23F19-PU40,0-MA-122435	122435	75
C-M27F26-PU01,1-MA-114976	114976	76
C-M27F26-PU02,0-MA-111997	111997	76
C-M27F26-PU05,0-MA-111998	111998	76
C-M27F26-PU10,0-MA-111999	111999	76
C-M27F26-PU20,0-MA-112912	112912	76
C-M27F26-PU35,0-MA-123829	123829	76
C-M27F26-PU50,0-MA-123877	123877	76
EKPM20/06	086223	73
Lead seal kit C1937	087256	69
MGB-A-BUSH-109524	109524	78, 82
MGB-A-DOORHANDLE-R-110276	110276	68, 88, 93, 96, 100, 105, 108, 112
MGB-A-DOORHANDLE-S-110277	110277	65
MGB-A-DOORHANDLE-S2-123926	123926	65, 67, 88, 93, 96, 100, 105, 108, 112
MGB-A-DOORKNOB-111460	111460	65
MGB-A-DOORKNOB-114904	114904	68
MGB-A-DOORKNOB-S2-124030	124030	65, 67
MGB-A-EMERGENCYRELEASE-112989	112989	69
MGB-A-FLUCHTENTRIEGELUNGSWELLE 250	106761	68, 88, 93, 96, 100, 105, 108, 112
MGB-A-LENSSET-0001-120344	120344	70, 82
MGB-A-LENSSET-0002-120378	120378	70, 82
MGB-A-LENSSET-SY01-120377	120377	70, 82
MGB-A-LENSSET-SY02-125359	125359	70, 82
MGB-A-LENSSET-SY03-126158	126158	70, 82
MGB-A-LPSET-109858	109858	78
MGB-A-MOUNTINGPLATE-E-109492	109492	71, 88, 93, 96, 100, 105, 108, 112
MGB-A-MOUNTINGPLATE-H-109491	109491	71, 88, 93, 96, 100, 105, 108, 112
MGB-A-MOUNTINGPLATE-L-109490	109490	71
MGB-A-MOUNTINGPLATE-LC-110072	110072	71
MGB-A-PLATESET-NN01-114529	114529	69, 81, 82
MGB-A-PLUGCONNECTOR-RC18-1204035	120403	73

Item	Order no.	Page
MGB-A-SCREW-156331/V5	156331	69
MGB-B-A1W2A2-PN-123759	123759	114
MGB-C-000000-A1-109219	109219	78
MGB-C-0HHHHHH-A1-114268	114268	78
MGB-C-1BBBBPP-A3-112023	112023	78
MGB-C-1EPPBPP-A3-112022	112022	78
MGB-CB-PN-114744	114744	115
MGB-E-A-100465	100465	68
MGB-E-A2-106051	106051	68, 88, 93, 96, 100, 105, 108, 112
MGB-E-A7-117126	117126	68
MGB-H-AA1A1-L-106619	106619	65
MGB-H-AA1A1-R-100464	100464	65
MGB-H-AA1A2-L-106221	106221	88, 93, 100, 105, 112
MGB-H-AA1A2-R-106049	106049	88
MGB-H-AA1A2-R-106049	106049	93
MGB-H-AA1A2-R-106049	106049	100, 105, 112
MGB-H-AA1A3-L-111158	111158	67
MGB-H-AA1A3-R-111157	111157	67
MGB-H-AA1A6-L-111839	111839	96, 108
MGB-H-AA1A6-R-111838	111838	96, 108
MGB-H-AA1A7-L-121478	121478	65
MGB-H-AA1A7-R-113201	113201	65
MGB-H-AA1B1-L-114656	114656	65
MGB-H-AA1B1-R-114655	114655	65
MGB-H-AA1B2-L-116814	116814	67
MGB-H-AA1B2-R-116813	116813	67
MGB-L0H-AR-R-105778	105778	10
MGB-L0H-ARA-L-121260	121260	14
MGB-L0H-ARA-R-121059	121059	12
MGB-L0H-ARA-R-121254	121254	14
MGB-L0HC-ARA-L-110256	110256	54
MGB-L0HC-ARA-R-110255	110255	54
MGB-L0HE-AR-R-105780	105780	10
MGB-L0HE-ARA-L-110692	110692	14
MGB-L0HE-ARA-R-110691	110691	14
MGB-L0HE-ARA-R-121233	121233	14
MGB-L1B-PNA-L-121833	121833	88
MGB-L1B-PNA-L-121855	121855	93
MGB-L1B-PNA-L-121861	121861	93
MGB-L1B-PNA-R-121831	121831	88
MGB-L1B-PNA-R-121851	121851	93
MGB-L1B-PNA-R-121857	121857	93
MGB-L1B-PNC-L-121867	121867	96
MGB-L1B-PNC-R-121865	121865	96
MGB-L1H-APA-L-110588	110588	26
MGB-L1H-APA-L-114238	114238	27
MGB-L1H-APA-L-115179	115179	26
MGB-L1H-APA-L-115897	115897	27
MGB-L1H-APA-R-110587	110587	26
MGB-L1H-APA-R-114236	114236	27
MGB-L1H-APA-R-115178	115178	26
MGB-L1H-APA-R-115895	115895	27
MGB-L1H-AR-R-105782	105782	16
MGB-L1H-AR-R-105783	105783	27
MGB-L1H-ARA-L-110614	110614	29
MGB-L1H-ARA-L-111022	111022	30
MGB-L1H-ARA-L-111073	111073	16
MGB-L1H-ARA-L-111656	111656	22

Item	Order no.	Page
MGB-L1H-ARA-L-117231	117231	34
MGB-L1H-ARA-L-117316	117316	28
MGB-L1H-ARA-L-119926	119926	35
MGB-L1H-ARA-L-121107	121107	22
MGB-L1H-ARA-L-121171	121171	21
MGB-L1H-ARA-L-121211	121211	30
MGB-L1H-ARA-L-121243	121243	28
MGB-L1H-ARA-L-121262	121262	28
MGB-L1H-ARA-L-121407	121407	35
MGB-L1H-ARA-L-121414	121414	28
MGB-L1H-ARA-L-124099	124099	20
MGB-L1H-ARA-R-110613	110613	29
MGB-L1H-ARA-R-111020	111020	30
MGB-L1H-ARA-R-111070	111070	16
MGB-L1H-ARA-R-111655	111655	22
MGB-L1H-ARA-R-117229	117229	34
MGB-L1H-ARA-R-117314	117314	28
MGB-L1H-ARA-R-119924	119924	35
MGB-L1H-ARA-R-121051	121051	20
MGB-L1H-ARA-R-121061	121061	21
MGB-L1H-ARA-R-121068	121068	21
MGB-L1H-ARA-R-121105	121105	22
MGB-L1H-ARA-R-121170	121170	21
MGB-L1H-ARA-R-121209	121209	30
MGB-L1H-ARA-R-121256	121256	27
MGB-L1H-ARA-R-121405	121405	35
MGB-L1H-ARA-R-121412	121412	28
MGB-L1H-ARA-R-124098	124098	20
MGB-L1HB-PNA-L-121834	121834	86
MGB-L1HB-PNA-L-121856	121856	90
MGB-L1HB-PNA-L-121862	121862	91
MGB-L1HB-PNA-R-121832	121832	86
MGB-L1HB-PNA-R-121852	121852	90
MGB-L1HB-PNA-R-121858	121858	91
MGB-L1HB-PNC-L-121868	121868	94
MGB-L1HB-PNC-R-121866	121866	94
MGB-L1HC-ARA-L-109807	109807	56
MGB-L1HC-ARA-R-109806	109806	56
MGB-L1HE-APA-L-121815	121815	34
MGB-L1HE-APA-R-121813	121813	34
MGB-L1HE-AR-R-105784	105784	16
MGB-L1HE-AR-R-109313	109313	28
MGB-L1HE-AR-R-110220	110220	27
MGB-L1HE-ARA-L-110690	110690	29
MGB-L1HE-ARA-L-119809	119809	21
MGB-L1HE-ARA-L-121040	121040	18
MGB-L1HE-ARA-L-121069	121069	21
MGB-L1HE-ARA-L-121089	121089	21
MGB-L1HE-ARA-L-121218	121218	29
MGB-L1HE-ARA-R-110689	110689	29
MGB-L1HE-ARA-R-119807	119807	21
MGB-L1HE-ARA-R-120991	120991	18
MGB-L1HE-ARA-R-121035	121035	18
MGB-L1HE-ARA-R-121052	121052	20
MGB-L1HE-ARA-R-121062	121062	21
MGB-L1HE-ARA-R-121087	121087	21
MGB-L1HE-ARA-R-121131	121131	20
MGB-L1HE-ARA-R-121216	121216	29
MGB-L1HE-ARA-R-121236	121236	27
MGB-L2B-PNA-L-113990	113990	112
MGB-L2B-PNA-L-114044	114044	100
MGB-L2B-PNA-L-121838	121838	108
MGB-L2B-PNA-L-121853	121853	105
MGB-L2B-PNA-L-121863	121863	105
MGB-L2B-PNA-R-113133	113133	112
MGB-L2B-PNA-R-114045	114045	100
MGB-L2B-PNA-R-121836	121836	108
MGB-L2B-PNA-R-121848	121848	105
MGB-L2B-PNA-R-121859	121859	105
MGB-L2H-APA-L-110549	110549	44
MGB-L2H-APA-R-110548	110548	44
MGB-L2H-AR-L-109781	109781	38
MGB-L2H-AR-R-105786	105786	38
MGB-L2H-AR-R-109780	109780	38
MGB-L2H-ARA-L-110616	110616	45
MGB-L2H-ARA-L-111926	111926	45
MGB-L2H-ARA-L-121029	121029	40
MGB-L2H-ARA-L-121071	121071	40
MGB-L2H-ARA-L-121114	121114	41
MGB-L2H-ARA-L-121175	121175	41
MGB-L2H-ARA-L-121245	121245	44
MGB-L2H-ARA-L-121264	121264	45
MGB-L2H-ARA-L-121400	121400	48
MGB-L2H-ARA-R-110615	110615	45
MGB-L2H-ARA-R-111924	111924	45
MGB-L2H-ARA-R-121025	121025	40
MGB-L2H-ARA-R-121065	121065	40
MGB-L2H-ARA-R-121112	121112	41
MGB-L2H-ARA-R-121173	121173	41
MGB-L2H-ARA-R-121238	121238	44
MGB-L2H-ARA-R-121258	121258	45
MGB-L2H-ARA-R-121398	121398	48
MGB-L2HB-PNA-L-113989	113989	98
MGB-L2HB-PNA-L-113991	113991	110
MGB-L2HB-PNA-L-121839	121839	106
MGB-L2HB-PNA-L-121854	121854	102
MGB-L2HB-PNA-L-121864	121864	103
MGB-L2HB-PNA-R-113134	113134	110
MGB-L2HB-PNA-R-113988	113988	98
MGB-L2HB-PNA-R-121837	121837	106
MGB-L2HB-PNA-R-121849	121849	102
MGB-L2HB-PNA-R-121860	121860	103
MGB-L2HC-ARA-L-112532	112532	58
MGB-L2HC-ARA-R-112531	112531	58
MGB-L2HE-APA-L-120602	120602	48
MGB-L2HE-APA-R-120600	120600	48
MGB-L2HE-AR-R-105788	105788	38
MGB-L2HE-ARA-L-121072	121072	40
MGB-L2HE-ARA-L-121195	121195	45
MGB-L2HE-ARA-L-121246	121246	44
MGB-L2HE-ARA-R-121066	121066	40
MGB-L2HE-ARA-R-121191	121191	45
MGB-L2HE-ARA-R-121239	121239	44
MP-A-B-00-00-00-109468	109468	81, 82
MP-A-C-CH-00-00-157842	157842	81, 82
MP-A-C-GM-21-00-109456	109456	81, 82
MP-A-C-GU-01-00-157840	157840	81, 82
MP-A-C-LC-WH-00-157841	157841	81, 82
MP-B-E-RD-00-A4-121808	}121808	81, 82
MP-B-K-RR-00-A3-121807	121807	81, 82
MP-B-L-R0-GN-00-121805	121805	81, 82
MP-B-L-R0-RD-00-121802	121802	81, 82
MP-B-L-R0-WH-00-121804	121804	81, 82
MP-B-L-R0-YE-00-121803	121803	81, 82
MP-B-P-RT-NC-A1-121801	121801	81, 82
MP-B-S-RR-00-A2-121806	121806	81, 82
Pin crimp contact RCM-C1825	094310	73
RC18EF-C1825	077025	73

Index by order number

Order no.	Item	Page
077014	C-M23F19-19XDIFPU06,0-MA-077014	74
077015	C-M23F19-19XDIFPU08,0-MA-077015	74
077016	C-M23F19-19XDIFPU15,0-MA-077016	74
077025	RC18EF-C1825	73
086223	EKPM20/06	73
087256	Lead seal kit C1937	69
092726	C-M23F19-19XDIFPU20,0-MA-092726	74
092727	C-M23F19-19XDIFPU25,0-MA-092727	74
092761	C-M23F19-19XDIFPU01,5-MA-092761	74
092816	C-M23F19-19XDIFPU03,0-MA-092816	74
092898	C-M23F19-19XDIFPU10,0-MA-092898	74
094310	Pin crimp contact RCM-C1825	73
095993	C-M23F19-19XDIFPU30,0-MA-095993	74
100464	MGB-H-AA1A1-R-100464	65
100465	MGB-E-A-100465	68
102490	C-M23F19-19XDIFPU40,0-MA-102490	74
105778	MGB-L0H-AR-R-105778	10
105780	MGB-L0HE-AR-R-105780	10
105782	MGB-L1H-AR-R-105782	16
105783	MGB-L1H-AR-R-105783	27
105784	MGB-L1HE-AR-R-105784	16
105786	MGB-L2H-AR-R-105786	38
105788	MGB-L2HE-AR-R-105788	38
106049	MGB-H-AA1A2-R-106049	88
106049	MGB-H-AA1A2-R-106049	93
106049	MGB-H-AA1A2-R-106049	100, 105, 112
106051	MGB-E-A2-106051	68, 88, 93, 96, 100, 105, 108, 112
106221	MGB-H-AA1A2-L-106221	88, 93, 100, 105, 112
106619	MGB-H-AA1A1-L-106619	65
106761	MGB-A-FLUCHTENTRIEGELUNGSWELLE 250	68, 88, 93, 96, 100, 105, 108, 112
109219	MGB-C-000000-A1-109219	78
109313	MGB-L1HE-AR-R-109313	28
109456	MP-A-C-GM-21-00-109456	81, 82
109468	MP-A-B-00-00-00-109468	81, 82
109490	MGB-A-MOUNTINGPLATE-L-109490	71
109491	MGB-A-MOUNTINGPLATE-H-109491	71, 88, 93, 96, 100, 105, 108, 112
109492	MGB-A-MOUNTINGPLATE-E-109492	71, 88, 93, 96, 100, 105, 108, 112
109524	MGB-A-BUSH-109524	78, 82
109780	MGB-L2H-AR-R-109780	38
109781	MGB-L2H-AR-L-109781	38
109806	MGB-L1HC-ARA-R-109806	56
109807	MGB-L1HC-ARA-L-109807	56
109858	MGB-A-LPSET-109858	78
110072	MGB-A-MOUNTINGPLATE-LC-110072	71
110220	MGB-L1HE-AR-R-110220	27
110255	MGB-L0HC-ARA-R-110255	54
110256	MGB-L0HC-ARA-L-110256	54
110276	MGB-A-DOORHANDLE-R-110276	68, 88, 93, 96, 100, 105, 108, 112
110277	MGB-A-DOORHANDLE-S-110277	65
110301	C-M23F19-PU01,5-MA-110301	75
110302	C-M23F19-PU03,0-MA-110302	75
110303	C-M23F19-PU06,0-MA-110303	75
110304	C-M23F19-PU10,0-MA-110304	75
110305	C-M23F19-PU15,0-MA-110305	75
110306	C-M23F19-PU20,0-MA-110306	75
110307	C-M23F19-PU25,0-MA-110307	75
110548	MGB-L2H-APA-R-110548	44
110549	MGB-L2H-APA-L-110549	44
110587	MGB-L1H-APA-R-110587	26
110588	MGB-L1H-APA-L-110588	26
110613	MGB-L1H-ARA-R-110613	29
110614	MGB-L1H-ARA-L-110614	29
110615	MGB-L2H-ARA-R-110615	45
110616	MGB-L2H-ARA-L-110616	45
110689	MGB-L1HE-ARA-R-110689	29
110690	MGB-L1HE-ARA-L-110690	29
110691	MGB-L0HE-ARA-R-110691	14
110692	MGB-L0HE-ARA-L-110692	14
111020	MGB-L1H-ARA-R-111020	30
111022	MGB-L1H-ARA-L-111022	30
111070	MGB-L1H-ARA-R-111070	16
111073	MGB-L1H-ARA-L-111073	16
111157	MGB-H-AA1A3-R-111157	67
111158	MGB-H-AA1A3-L-111158	67
111460	MGB-A-DOORKNOB-111460	65
111655	MGB-L1H-ARA-R-111655	22
111656	MGB-L1H-ARA-L-111656	22
111838	MGB-H-AA1A6-R-111838	96, 108
111839	MGB-H-AA1A6-L-111839	96, 108
111924	MGB-L2H-ARA-R-111924	45
111926	MGB-L2H-ARA-L-111926	45
111997	C-M27F26-PU02,0-MA-111997	76
111998	C-M27F26-PU05,0-MA-111998	76
111999	C-M27F26-PU10,0-MA-111999	76
112022	MGB-C-1EPPBPP-A3-112022	78
112023	MGB-C-1BBBBPP-A3-112023	78
112531	MGB-L2HC-ARA-R-112531	58
112532	MGB-L2HC-ARA-L-112532	58
112912	C-M27F26-PU20,0-MA-112912	76
112989	MGB-A-EMERGENCYRELEASE-112989	69
113133	MGB-L2B-PNA-R-113133	112
113134	MGB-L2HB-PNA-R-113134	110
113201	MGB-H-AA1A7-R-113201	65
113988	MGB-L2HB-PNA-R-113988	98
113989	MGB-L2HB-PNA-L-113989	98
113990	MGB-L2B-PNA-L-113990	112
113991	MGB-L2HB-PNA-L-113991	110
114044	MGB-L2B-PNA-L-114044	100
114045	MGB-L2B-PNA-R-114045	100
114236	MGB-L1H-APA-R-114236	27
114238	MGB-L1H-APA-L-114238	27
114268	MGB-C-0HHHHHH-A1-114268	78
114529	MGB-A-PLATESET-NN01-114529	69, 81, 82
114655	MGB-H-AA1B1-R-114655	65
114656	MGB-H-AA1B1-L-114656	65
114744	MGB-CB-PN-114744	115
114904	MGB-A-DOORKNOB-114904	68
114976	C-M27F26-PU01,1-MA-114976	76
115178	MGB-L1H-APA-R-115178	26
115179	MGB-L1H-APA-L-115179	26
115895	MGB-L1H-APA-R-115895	27
115897	MGB-L1H-APA-L-115897	27

Order no.	Item	Page
116813	MGB-H-AA1B2-R-116813	67
116814	MGB-H-AA1B2-L-116814	67
117126	MGB-E-A7-117126	68
117229	MGB-L1H-ARA-R-117229	34
117231	MGB-L1H-ARA-L-117231	34
117314	MGB-L1H-ARA-R-117314	28
117316	MGB-L1H-ARA-L-117316	28
119807	MGB-L1HE-ARA-R-119807	21
119809	MGB-L1HE-ARA-L-119809	21
119924	MGB-L1H-ARA-R-119924	35
119926	MGB-L1H-ARA-L-119926	35
120344	MGB-A-LENSSET-0001-120344	70, 82
120377	MGB-A-LENSSET-SY01-120377	70, 82
120378	MGB-A-LENSSET-0002-120378	70, 82
120403	MGB-A-PLUGCONNECTOR-RC18-1204035	73
120600	MGB-L2HE-APA-R-120600	48
120602	MGB-L2HE-APA-L-120602	48
120991	MGB-L1HE-ARA-R-120991	18
121025	MGB-L2H-ARA-R-121025	40
121029	MGB-L2H-ARA-L-121029	40
121035	MGB-L1HE-ARA-R-121035	18
121040	MGB-L1HE-ARA-L-121040	18
121051	MGB-L1H-ARA-R-121051	20
121052	MGB-L1HE-ARA-R-121052	20
121059	MGB-L0H-ARA-R-121059	12
121061	MGB-L1H-ARA-R-121061	21
121062	MGB-L1HE-ARA-R-121062	21
121065	MGB-L2H-ARA-R-121065	40
121066	MGB-L2HE-ARA-R-121066	40
121068	MGB-L1H-ARA-R-121068	21
121069	MGB-L1HE-ARA-L-121069	21
121071	MGB-L2H-ARA-L-121071	40
121072	MGB-L2HE-ARA-L-121072	40
121087	MGB-L1HE-ARA-R-121087	21
121089	MGB-L1HE-ARA-L-121089	21
121105	MGB-L1H-ARA-R-121105	22
121107	MGB-L1H-ARA-L-121107	22
121112	MGB-L2H-ARA-R-121112	41
121114	MGB-L2H-ARA-L-121114	41
121131	MGB-L1HE-ARA-R-121131	20
121170	MGB-L1H-ARA-R-121170	21
121171	MGB-L1H-ARA-L-121171	21
121173	MGB-L2H-ARA-R-121173	41
121175	MGB-L2H-ARA-L-121175	41
121191	MGB-L2HE-ARA-R-121191	45
121195	MGB-L2HE-ARA-L-121195	45
121209	MGB-L1H-ARA-R-121209	30
121211	MGB-L1H-ARA-L-121211	30
121216	MGB-L1HE-ARA-R-121216	29
121218	MGB-L1HE-ARA-L-121218	29
121233	MGB-L0HE-ARA-R-121233	14
121236	MGB-L1HE-ARA-R-121236	27
121238	MGB-L2H-ARA-R-121238	44
121239	MGB-L2HE-ARA-R-121239	44
121243	MGB-L1H-ARA-L-121243	28
121245	MGB-L2H-ARA-L-121245	44
121246	MGB-L2HE-ARA-L-121246	44
121254	MGB-L0H-ARA-R-121254	14
121256	MGB-L1H-ARA-R-121256	27
121258	MGB-L2H-ARA-R-121258	45
121260	MGB-L0H-ARA-L-121260	14
121262	MGB-L1H-ARA-L-121262	28
121264	MGB-L2H-ARA-L-121264	45
121398	MGB-L2H-ARA-R-121398	48
121400	MGB-L2H-ARA-L-121400	48
121405	MGB-L1H-ARA-R-121405	35
121407	MGB-L1H-ARA-L-121407	35
121412	MGB-L1H-ARA-R-121412	28
121414	MGB-L1H-ARA-L-121414	28
121478	MGB-H-AA1A7-L-121478	65
121801	MP-B-P-RT-NC-A1-121801	81, 82
121802	MP-B-L-R0-RD-00-121802	81, 82
121803	MP-B-L-R0-YE-00-121803	81, 82
121804	MP-B-L-R0-WH-00-121804	81, 82
121805	MP-B-L-R0-GN-00-121805	81, 82
121806	MP-B-S-RR-00-A2-121806	81, 82
121807	MP-B-K-RR-00-A3-121807	81, 82
}121808	MP-B-E-RD-00-A4-121808	81, 82
121813	MGB-L1HE-APA-R-121813	34
121815	MGB-L1HE-APA-L-121815	34
121831	MGB-L1B-PNA-R-121831	88
121832	MGB-L1HB-PNA-R-121832	86
121833	MGB-L1B-PNA-L-121833	88
121834	MGB-L1HB-PNA-L-121834	86
121836	MGB-L2B-PNA-R-121836	108
121837	MGB-L2HB-PNA-R-121837	106
121838	MGB-L2B-PNA-L-121838	108
121839	MGB-L2HB-PNA-L-121839	106
121848	MGB-L2B-PNA-R-121848	105
121849	MGB-L2HB-PNA-R-121849	102
121851	MGB-L1B-PNA-R-121851	93
121852	MGB-L1HB-PNA-R-121852	90
121853	MGB-L2B-PNA-L-121853	105
121854	MGB-L2HB-PNA-L-121854	102
121855	MGB-L1B-PNA-L-121855	93
121856	MGB-L1HB-PNA-L-121856	90
121857	MGB-L1B-PNA-R-121857	93
121858	MGB-L1HB-PNA-R-121858	91
121859	MGB-L2B-PNA-R-121859	105
121860	MGB-L2HB-PNA-R-121860	103
121861	MGB-L1B-PNA-L-121861	93
121862	MGB-L1HB-PNA-L-121862	91
121863	MGB-L2B-PNA-L-121863	105
121864	MGB-L2HB-PNA-L-121864	103
121865	MGB-L1B-PNC-R-121865	96
121866	MGB-L1HB-PNC-R-121866	94
121867	MGB-L1B-PNC-L-121867	96
121868	MGB-L1HB-PNC-L-121868	94
122434	C-M23F19-PU30,0-MA-122434	75
122435	C-M23F19-PU40,0-MA-122435	75
123759	MGB-B-A1W2A2-PN-123759	114
123829	C-M27F26-PU35,0-MA-123829	76
123877	C-M27F26-PU50,0-MA-123877	76
123926	MGB-A-DOORHANDLE-S2-123926	65, 67, 88, 93, 96, 100, 105, 108, 112
124030	MGB-A-DOORKNOB-S2-124030	65, 67
124098	MGB-L1H-ARA-R-124098	20
124099	MGB-L1H-ARA-L-124099	20
125359	MGB-A-LENSSET-SY02-125359	70, 82
126158	MGB-A-LENSSET-SY03-126158	70, 82
156331	MGB-A-SCREW-156331/V5	69
157840	MP-A-C-GU-01-00-157840	81, 82
157841	MP-A-C-LC-WH-00-157841	81, 82
157842	MP-A-C-CH-00-00-157842	81, 82

Representatives

International

Austria
EUCHNER GmbH
Aumühlweg 17-19/Halle 1C
2544 Leobersdorf
Tel. +43 720 010 200
Fax +43 720 010 200-20
info@euchner.at

Benelux
EUCHNER (BENELUX) BV
Visschersbuurt 23
3356 AE Papendrecht
Tel. +31 78 615-4766
Fax +31 78 615-4311
info@euchner.nl

Brazil
EUCHNER Com.Comp.
Eletronicos Ltda.
Av. Prof. Luiz Ignácio Anhaia Mello, no. 4387
Vila Graciosa
São Paulo - SP - Brasil
CEP 03295-000
Tel. +55 11 29182200
Fax +55 11 23010613
euchner@euchner.com.br

Canada
EUCHNER Canada Inc.
2105 Fasan Drive
Oldcastle, ON N0R 1L0
Tel. +1 519 800-8397
Fax +1 519 737-0314
sales@euchner.ca

China
EUCHNER (Shanghai)
Trading Co., Ltd.
No. 15 building,
No. 68 Zhongchuang Road,
Songjiang
Shanghai, 201613, P.R.C
Tel. +86 21 5774-7090
Fax +86 21 5774-7599
info@euchner.com.cn

Czech Republic
EUCHNER electric s.r.o.
Trnkova 3069/117h
628 00 Brno
Tel. +420 533 443-150
Fax +420 533 443-153
info@euchner.cz

Denmark
Duelco A/S
Systemvej 8 - 10
9200 Aalborg SV
Tel. +45 7010 1007
Fax +45 7010 1008
info@duelco.dk

Estonia
Sähkölehto OÜ
Hobujaama 4
Tallinn 10151
Tel. +372 56 645 400
office@sahkolehto.fi

Finland
Sähkölehto Oy
Holkkitie 14
00880 Helsinki
Tel. +358 9 7746420
office@sahkolehto.fi

France
EUCHNER France S.A.R.L.
Parc d'Affaires des Bellevues
Allée Rosa Luxembourg
Bâtiment le Colorado
95610 ERAGNY sur OISE
Tel. +33 1 3909-9090
Fax +33 1 3909-9099
info@euchner.fr

Hungary
EUCHNER Magyarország Kft.
FSD Park 2.
2045 Törökbálint
Tel. +36 1 919 0855
Fax +36 1 919 0857
info@euchner.hu

India
EUCHNER (India) Pvt. Ltd.
401, Bremen Business Center,
City Survey No. 2562,
University Road
Aundh, Pune - 411007
Tel. +91 20 64016384
Fax +91 20 25885148
info@euchner.in

Israel
Ilan & Gavish Automation Service Ltd.
26 Shenkar St. Qiryat Arie 49513
P.O. Box 10118
Petach Tikva 49001
Tel. +972 3 9221824
Fax +972 3 9240761
mail@ilan-gavish.com

Italy
TRITECNICA SpA
Viale Lazio 26
20135 Milano
Tel. +39 02 541941
Fax +39 02 55010474
info@tritecnica.it

Japan
EUCHNER Co., Ltd.
1269-1 Komakiharashinden,
Komaki-shi, Aichi-ken
485-0012, Japan
Tel. +81 568 74 5237
Fax +81 568 74 5238
info@euchner.jp

Korea
EUCHNER Korea Co., Ltd.
115 Gasan Digital 2 - Ro
(Gasan-dong, Daeryung
Technotown 3rd Rm 810)
153 - 803 Kumchon-Gu, Seoul
Tel. +82 2 2107-3500
Fax +82 2 2107-3999
info@euchner.co.kr

Mexico
EUCHNER México S de RL de CV
Conjunto Industrial PK Co.
Carretera Estatal 431 km. 1+300
Ejido El Colorado, El Marqués
76246 Querétaro, México
Tel. +52 442 402 1485
Fax +52 442 402 1486
info@euchner.mx

Poland
EUCHNER Sp. z o.o.
Krasińskiego 29
40-019 Katowice
Tel. +48 32 252 20 09
Fax +48 32 252 20 13
info@euchner.pl

Portugal
PAM Servicos Tecnicos Industriais Lda.
Rua de Timor - Pavilhao 2A
Zona Industrial da Abelheira
4785-123 Trofa
Tel. +351 252 418431
Fax +351 252 494739
pam@mail.telepac.pt

Republic of South Africa
RUBICON
ELECTRICAL DISTRIBUTORS
4 Reith Street, Sidwell
6061 Port Elizabeth
Tel. +27 41 451-4359
Fax +27 41 451-1296
sales@rubiconelectrical.com

Romania
First Electric SRL
Str. Ritmului Nr. 1 Bis
Ap. 2, Sector 2
021675 Bucuresti
Tel. +40 21 2526218
Fax +40 21 3113193
office@firstelectric.ro

Singapore
BM Safety Singapore Pte Ltd.
3 Ang Mo Kio Industrial Park 2A
#07-04 Ang Mo Kio Tech 1
Singapore 568050
Tel. +65 6483 9288
Fax +65 6235 0506
sales@bmsafety.com.sg

Slovakia
EUCHNER electric s.r.o.
Trnkova 3069/117h
628 00 Brno
Tel. +420 533 443-150
Fax +420 533 443-153
info@euchner.cz

Slovenia
SMM proizvodni sistemi d.o.o.
Jaskova 18
2000 Maribor
Tel. +386 2 4502326
Fax +386 2 4625160
franc.kit@smm.si

Spain
EUCHNER, S.L.
Gurutzegi 12 - Local 1
Polígono Belartza
20018 San Sebastian
Tel. +34 943 316-760
Fax +34 943 316-405
info@euchner.es

Sweden
Censit AB
Box 331
33123 Värnamo
Tel. +46 370 691010
Fax +46 370 18888
info@censit.se

Switzerland
EUCHNER AG
Falknisstrasse 9a
7320 Sargans
Tel. +41 81 720-4590
Fax +41 81 720-4599
info@euchner.ch

Taiwan
Daybreak Int'l (Taiwan) Corp.
3F, No. 124, Chung-Cheng Road
Shihlin 11145, Taipei
Tel. +886 2 8866-1234
Fax +886 2 8866-1239
day111@ms23.hinet.net

Turkey
EUCHNER Endüstriyel Emniyet
Teknolojileri Ltd. Şti.
Hattat Bahattin Sok.
Ceylan Apt. No. 13/A
Göztepe Mah.
34730 Kadıköy / Istanbul
Tel. +90 216 359-5656
Fax +90 216 359-5660
info@euchner.com.tr

United Kingdom
EUCHNER (UK) Ltd.
Unit 2 Petre Drive,
Sheffield
South Yorkshire
S4 7PZ
Tel. +44 114 2560123
Fax +44 114 2425333
sales@euchner.co.uk

USA
EUCHNER USA Inc.
6723 Lyons Street
East Syracuse, NY 13057
Tel. +1 315 701-0315
Fax +1 315 701-0319
info@euchner-usa.com

EUCHNER USA Inc.
Detroit Office
130 Hampton Circle
Rochester Hills, MI 48307
Tel. +1 248 537-1092
Fax +1 248 537-1095
info@euchner-usa.com

Germany

Augsburg
EUCHNER GmbH + Co. KG
Ingenieur- und Vertriebsbüro
Julius-Spokojny-Weg 8
86153 Augsburg
Tel. +49 821 56786540
Fax +49 821 56786541
peter.klopfer@euchner.de

Berlin
EUCHNER GmbH + Co. KG
Ingenieur- und Vertriebsbüro
Ulmenstraße 115a
12621 Berlin
Tel. +49 30 50508214
Fax +49 30 56582139
alexander.walz@euchner.de

Chemnitz
EUCHNER GmbH + Co. KG
Ingenieur- und Vertriebsbüro
Am Vogelherd 2
09627 Bobritzsch-Hilbersdorf
Tel. +49 37325 906000
Fax +49 37325 906004
jens.zehrtner@euchner.de

Düsseldorf
EUCHNER GmbH + Co. KG
Ingenieur- und Vertriebsbüro
Tippgarten 3
59427 Unna
Tel. +49 2308 9337284
Fax +49 2308 9337285
christian.schimke@euchner.de

Essen
Thomas Kreißl
fördern - steuern - regeln
Hackenberghang 8a
45133 Essen
Tel. +49 201 84266-0
Fax +49 201 84266-66
info@kreissl-essen.de

Freiburg
EUCHNER GmbH + Co. KG
Ingenieur- und Vertriebsbüro
Steige 5
79206 Breisach
Tel. +49 7664 403833
Fax +49 7664 403834
peter.seifert@euchner.de

Lübeck
EUCHNER GmbH + Co. KG
Ingenieur- und Vertriebsbüro
Am Stadtrand 13
23556 Lübeck
Tel. +49 451 88048371
Fax +49 451 88184364
martin.pape@euchner.de

Nürnberg
EUCHNER GmbH + Co. KG
Ingenieur- und Vertriebsbüro
Steiner Straße 22a
90522 Oberasbach
Tel. +49 911 6693829
Fax +49 911 6696722
ralf.paulus@euchner.de

Stuttgart
EUCHNER GmbH + Co. KG
Ingenieur- und Vertriebsbüro
Kohlhammerstraße 16
70771 Leinfelden-Echterdingen
Tel. +49 711 7597-0
Fax +49 711 7597-303
oliver.laier@euchner.de
uwe.kupka@euchner.de

Wiesbaden
EUCHNER GmbH + Co. KG
Ingenieur- und Vertriebsbüro
Adolfsallee 3
65185 Wiesbaden
Tel. +49 611 98817644
Fax +49 611 98895071
giancarlo.pasquesi@euchner.de

0219

EUCHNER

More than safety.

Support hotline

You have technical questions about our products or how they can be used?
For further questions please contact your local sales representative.

Comprehensive download area

You are looking for more information about our products?
You can simply and quickly download operating instructions, CAD or ePLAN data and accompanying software for our products at www.euchner.com.

Customer-specific solutions

You need a specific solution or have a special requirement?
Please contact us. We can manufacture your custom product even in small quantities.

EUCHNER near you

You are looking for a contact at your location? Along with the headquarters in Leinfelden-Echterdingen, the worldwide sales network includes 18 subsidiaries and numerous representatives in Germany and abroad – you will definitely also find us near you.

www.euchner.com

How to find “your” MGB:

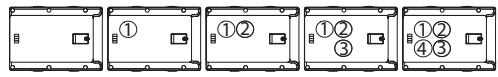
Considerations in relation to the output family

AP	**MGB-AP for separate operation**
AR	**MGB-AR for separate operation or series connection with other AR devices**
PROFINET PN	**MGB-PN for operation in PROFINET environment**

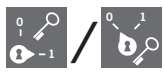
Step 1
Interlocking or guard locking?

-	**MGB-LO...: Interlocking** (Only monitoring of the door position)
	MGB-L1...: Guard locking by spring force (Closed-circuit current principle)
	MGB-L2...: Guard locking by solenoid force (Open-circuit current principle)

Step 2
Select number of controls/indicators required

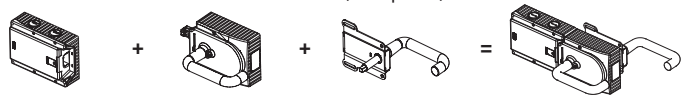
Contact assembly/ counting direction	

Step 3
Select type of controls and indicators

	Emergency stop according to ISO 13850
	Illuminated emergency stop / emergency stop with monitoring contact
	Machine stop / machine stop with monitoring contact
	Pushbutton, illuminated / not illuminated (Different colors available)
	LED (Different colors available)
	Selector switch form V, 2-stage, optionally illuminated (Different versions available. For details see ordering table and description of the details)
	**Key-operated selector switch form L or V, 2-stage** (Different versions available. For details see ordering table and description of the details)

Step 4
Select complete MGB set with the required configuration

Evaluation module + Handle module + Escape release (if required) = Complete MGB set



Have you not been able to find the configuration you require?

You will find further information at www.euchner.com. Alternatively our product consultants are available to assist you from the factory or on site.

For an explanation of symbols, see also Page 8.

EN

EUCHNER GmbH + Co. KG
Kohlhammerstraße 16
70771 Leinfelden-Echterdingen
Germany
Tel. +49 711 7597-0
Fax +49 711 753316
info@euchner.de
www.euchner.com

106109-10-02/18 Subject to technical modifications without notice, no liability will be assumed for any detail. © EUCHNER GmbH + Co. KG . TA

EUCHNER
More than safety.