

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 more than 600 people around the world.

16 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



Multifunctional Gate Box MGB

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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 push buttons for start/stop, emergency stop, etc. – the MGB meets all your requirements for safety-related applications.

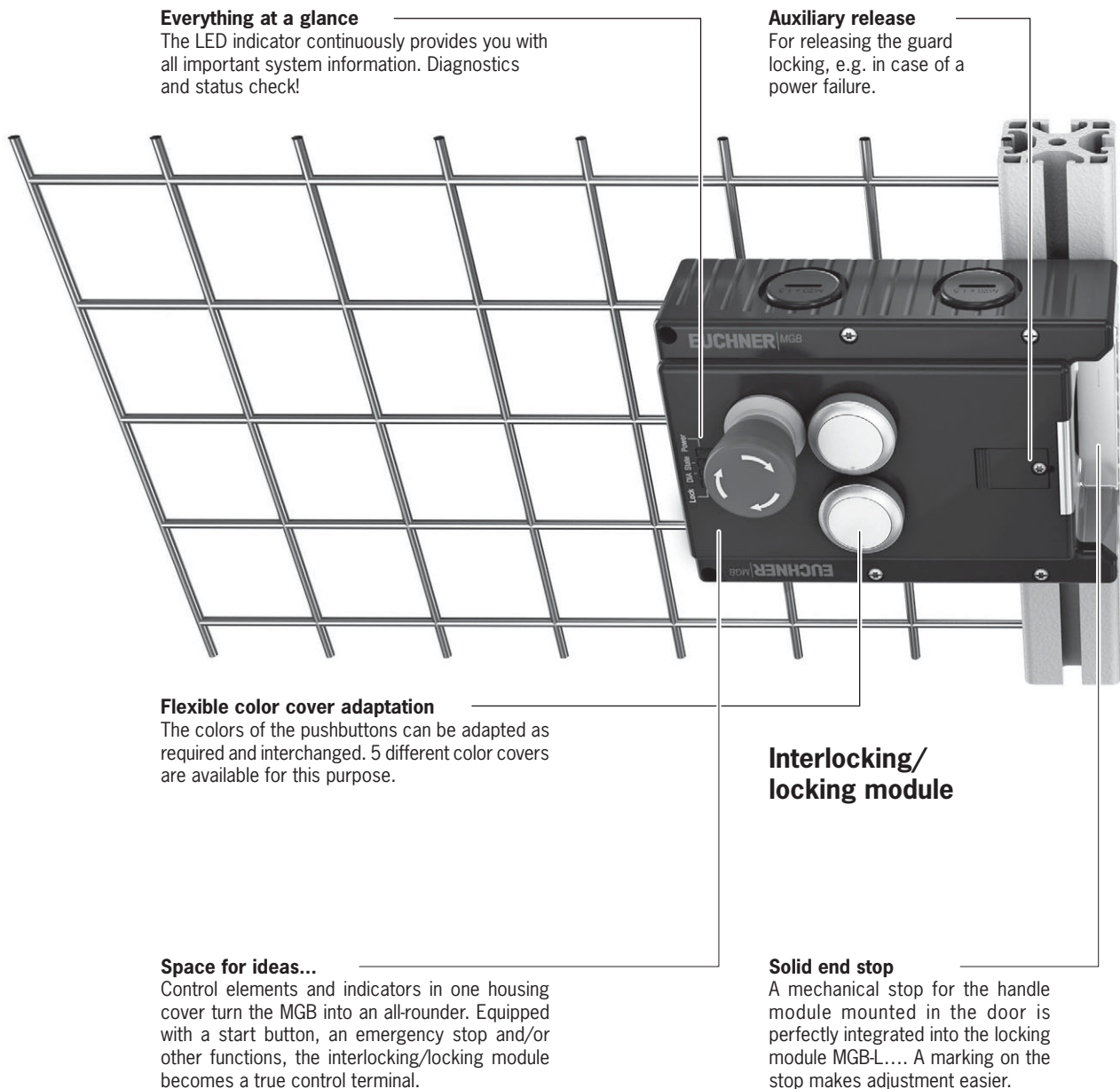
And if your needs grow, the MGB system grows with them. Due to the sophisticated modular design, the evaluation module can quickly become a small control panel.

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.

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.

Interlocking/locking module

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.

Safety remains the most important goal

Are you locked in inside the danger area? The optional escape release is intuitive to operate! Whether in the event of a power failure or active guard locking – the red door handle is simply pressed down to leave the danger area quickly.

For protection when working in the danger area 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.

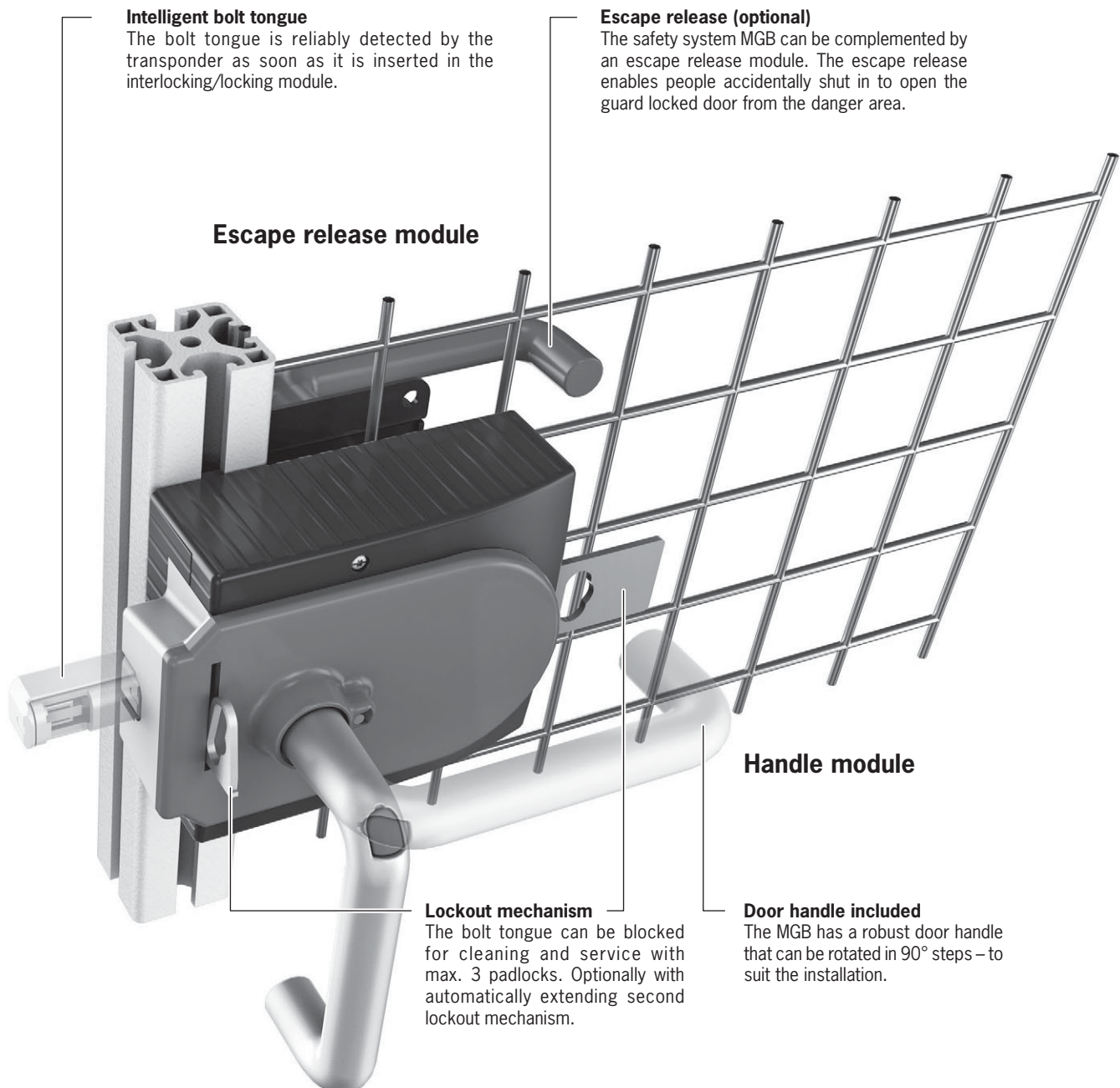
The adjustment of safety doors in fences changes over time. With ± 4 mm tolerance in the x direction as well as ± 5 mm in the z direction, the MGB is right there where the problem starts. Nevertheless, if a safety door should be even more out of adjustment, the large funnel in the evaluation module "catches"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

Escape release module

Handle module

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 actuator 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-LO, MGB-L1 and MGB-L2 compared

Interlocking devices (MGB-LO, without guard locking)

Together with a handle module, the interlocking module makes it possible to interlock the control of movable safety 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):

- ▶ Safety guard closed (but can be opened at any time)
- ▶ Bolt tongue inserted in the interlocking module

The interlocking module detects the position of the safety 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 safety 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):

- ▶ Safety 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 safety 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).
- ▶ **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).

Warning!

The safety 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 safety 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 short 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 of up to 300 Joule
- ▶ Optional escape release with door handle
- ▶ Optional push buttons 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




There 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

System families at a glance

The tables on this page provide you 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 safety 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 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 by means of kit MGB-C (only devices with cable entry)	○ Flexible configuration by means of 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:




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

Explanation of symbols




System families













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

Safety category/guard locking

	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

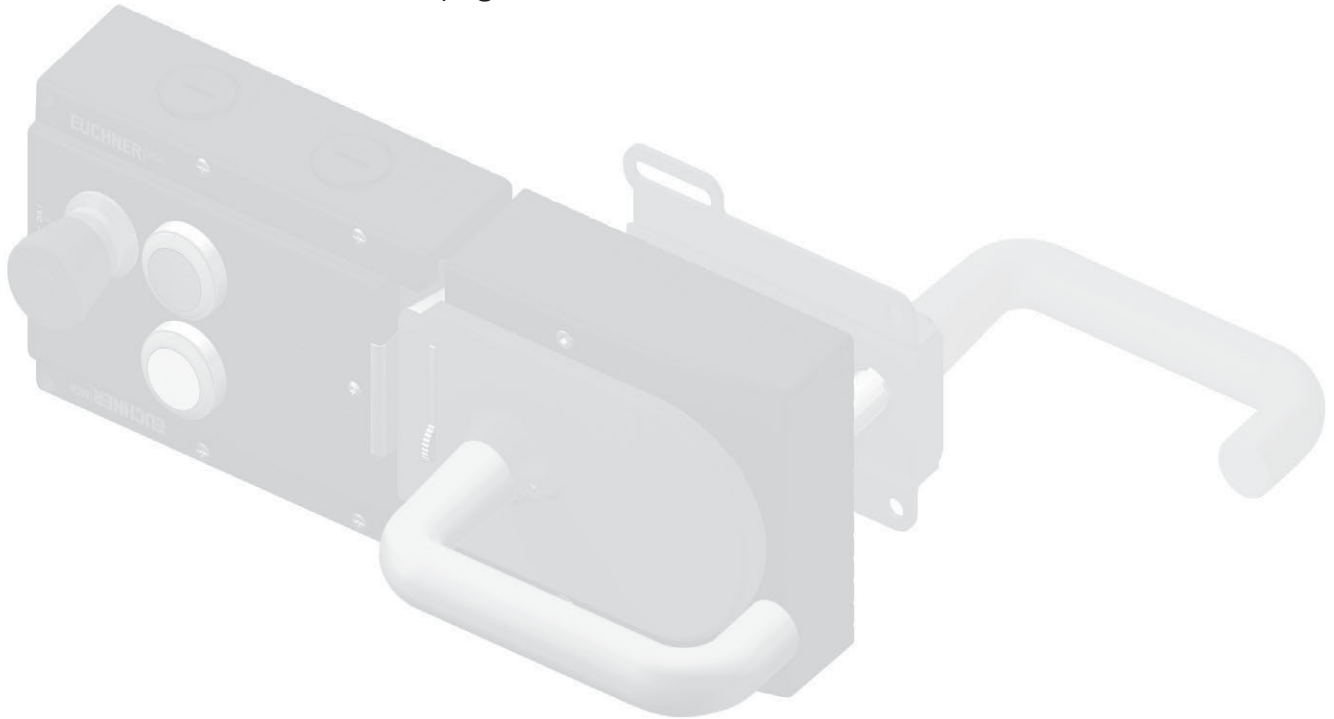
Controls and indicators

	Emergency stop according to ISO 13850
	Illuminated emergency stop
	Emergency stop with monitoring contact

	Machine stop (black-silver)
	Machine stop (black-silver) with monitoring contact
	Illuminated pushbutton
	Pushbutton not illuminated
	LED
	Selector switch form V
	Selector switch form V illuminated
	Key-operated selector switch form V
	Key-operated selector switch form L
	Pushbutton labeling "Unlocked"
	Pushbutton labeling "Locked"
	Other possible button labels

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

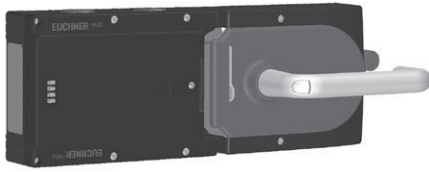


MGB-AP
MGB-AR

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

Cat.
4
PLe



Further information

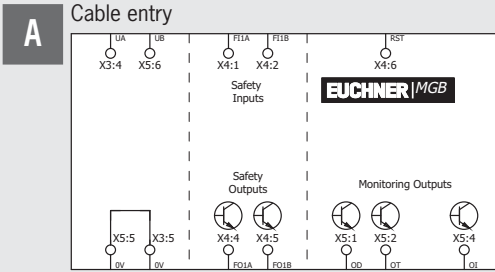
- ▶ Dimension drawings see p. 51
- ▶ Technical data see p. 50
- ▶ Accessories and spare parts see p. 63
- ▶ www.euchner.de

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

Ordering table

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

Block diagram

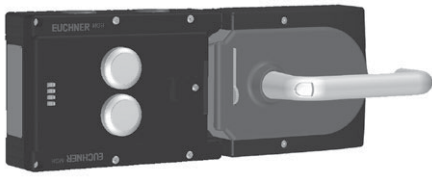


MGB-AP

MGB-AR

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

Cat. 4
PLe



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.de

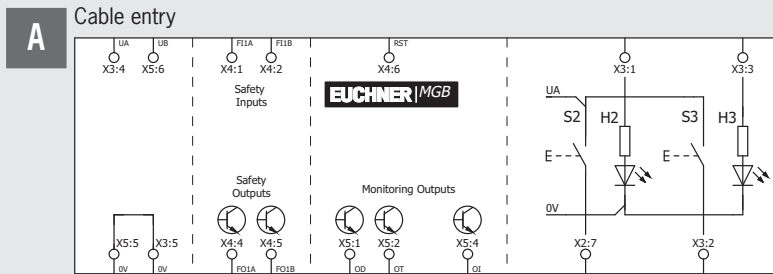
- ▶ Can be connected in series with other AR devices (e.g. CES-AR, CET-AR and CTP-AR)
- ▶ With cable entry
- ▶ Integrated controls and indicators

Ordering table for complete sets

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

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

Block diagram and wiring diagram for controls and indicators

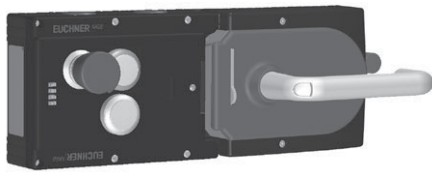


MGB-AP

MGB-AR

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

Cat. 4
PLe



- ▶ 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

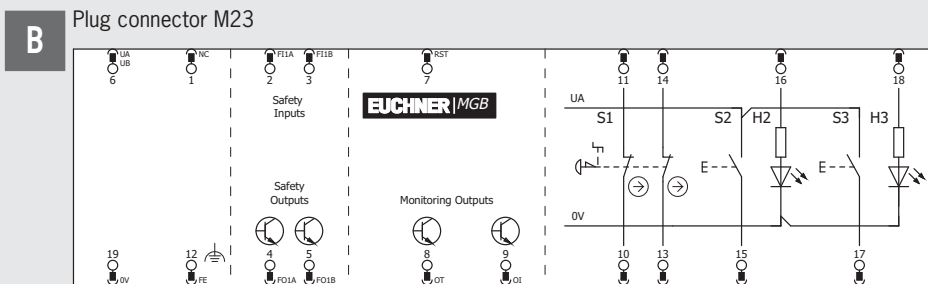
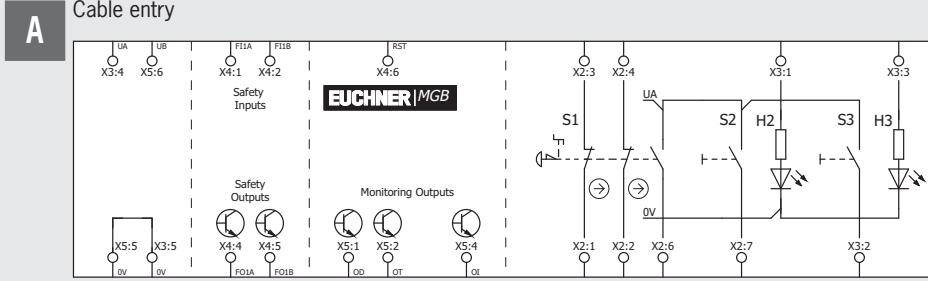
- ▶ Dimension drawings see p. 51
- ▶ Technical data see p. 50
- ▶ Accessories and spare parts see p. 63
- ▶ www.euchner.de

Ordering table

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

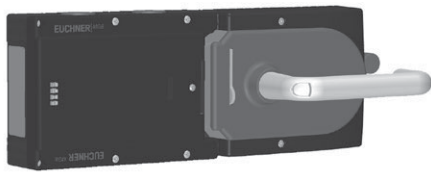
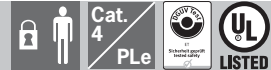
* The color can be selected using the lens set included.

Block diagram and wiring diagrams for controls and indicators



MGB-AP
 MGB-AR

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




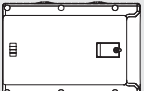
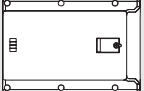
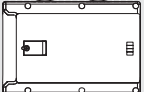


Further information

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

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

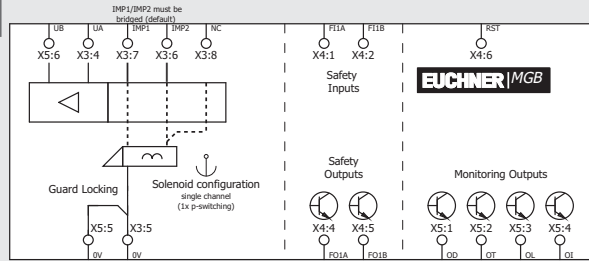
Ordering table

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

Block diagram

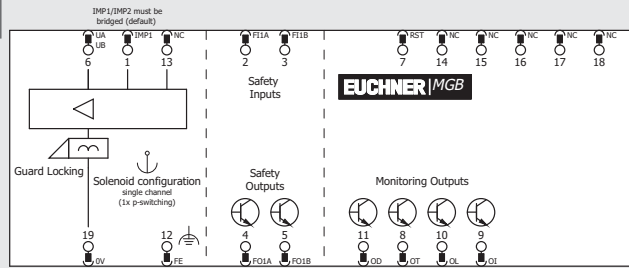
A

Cable entry



B

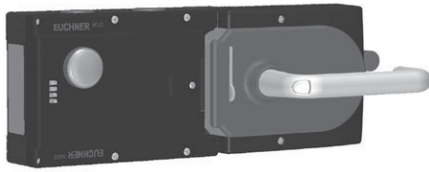
Plug connector M23



MGB-AP

MGB-AR

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



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.de

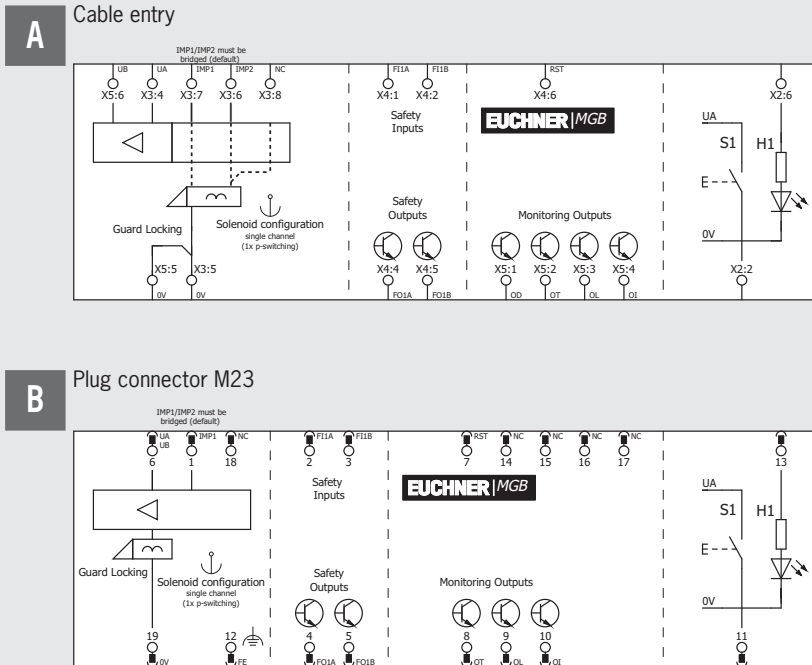
- ▶ Can be connected in series with other AR devices (e.g. CES-AR, CET-AR and CTP-AR)
- ▶ With cable entry or plug connector
- ▶ Integrated control and indicator

Ordering table

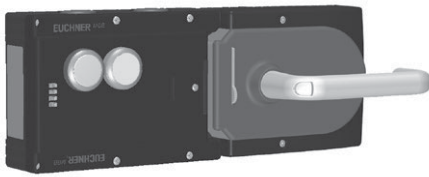
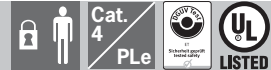
Modules in the set								Ordering data, set	
Version/configuration scheme Order no. separate module	Locking module				Wiring diagram	Handle module Order no. separate module	Escape release Order no. separate module	Door hinge (factory setting)	Order no./item
	S1 H1	S2 H2	S3 H3	S4 H4					
120990 				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

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

Block diagram and wiring diagrams for control and indicator



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 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 IP54.
- ▶ **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 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.de

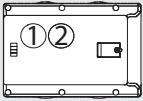


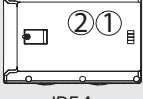
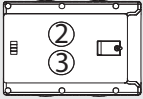
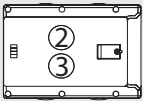
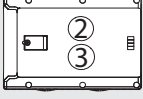


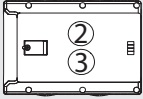
Ordering table

Modules in the set									Ordering data, set
Version/configuration scheme Order no. separate module	Locking module					Handle module Order no. separate module	Escape release Order no. separate module	Door hinge (factory setting)	Order no./item
	S1 H1	S2 H2	S3 H3	S4 H4	Wiring diagram				
121130 			-	-	A	100464	100465	Right	121131 MGB-L1HE-ARA-R-121131
121050 			-	-	B	100464	-	Right	121051 MGB-L1H-ARA-R-121051
							100465		121052 MGB-L1HE-ARA-R-121052
124691 IP54			-	-	C	100464		Right	124098 MGB-L1H-ARA-R-124098
124692 IP54	 Form L, 90°		-	-		106619		Left	124099 MGB-L1H-ARA-L-124099

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

(Continued on next page)

Ordering table (continued)

Modules in the set							Ordering data, set		
Version/configuration scheme <small>Order no. separate module</small>	Locking module				Wiring diagram	Handle module <small>Order no. separate module</small>	Escape release <small>Order no. separate module</small>	Door hinge <small>(factory setting)</small>	Order no./item
	S1 H1	S2 H2	S3 H3	S4 H4					
119806 					D	114655	100465	Right	119807 MGB-L1HE-ARA-R-119807
IP54			-	-		114656		Left	119809 MGB-L1HE-ARA-L-119809
119808 	wh	Form V 40°	-	-	E	100464	100465	Right	121061 MGB-L1H-ARA-R-121061
IP54									121062 MGB-L1HE-ARA-R-121062
121060 									121087 MGB-L1HE-ARA-R-121087 (with lens set 120378)
121086 									121170 MGB-L1H-ARA-R-121170
Incl. adhesive labels									121171 MGB-L1H-ARA-L-121171
121088 									121089 MGB-L1HE-ARA-L-121089 (with lens set 120378)
Incl. adhesive labels		*)	*)						121069 MGB-L1HE-ARA-L-121069
121067 									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



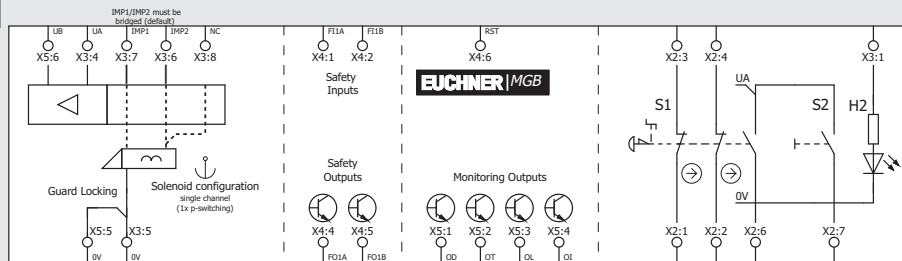
Ordering table (continued)

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

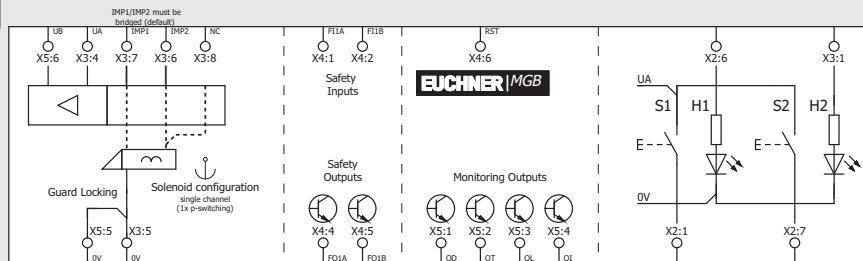
* The color can be selected using the lens set included.

Block diagram and wiring diagrams for controls and indicators

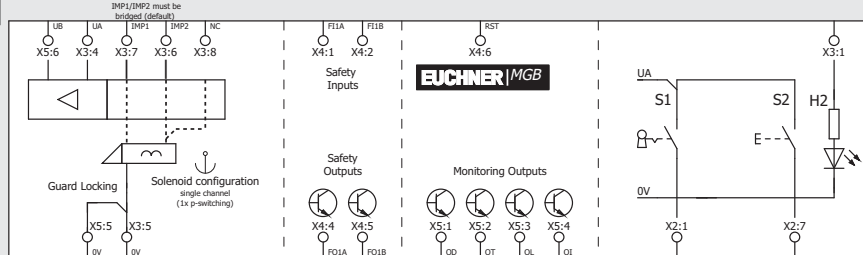
A Cable entry



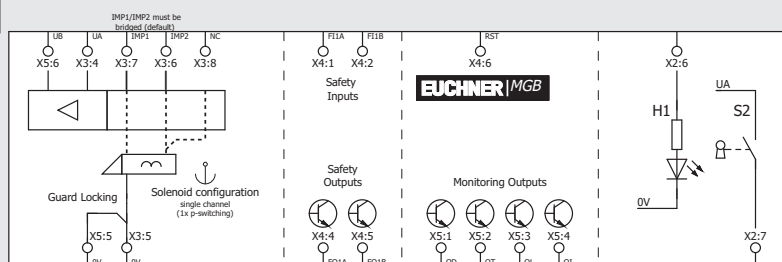
B Cable entry



C Cable entry



D Cable entry

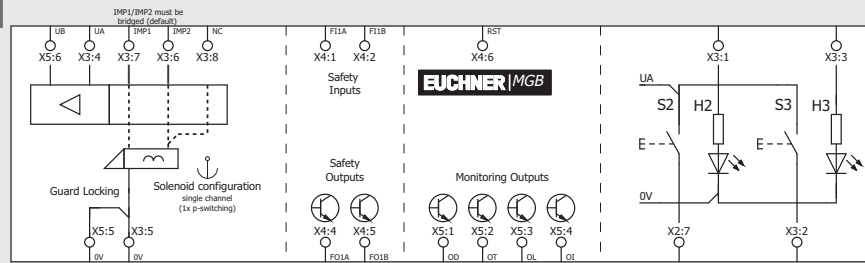


Locking sets MGB-L1-... (guard locking by spring force) with 2 controls or indicators

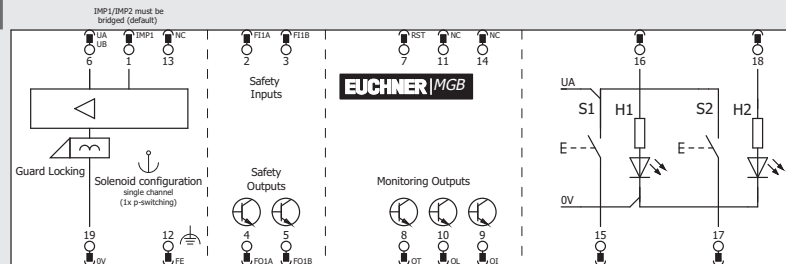


Block diagram and wiring diagrams for controls and indicators

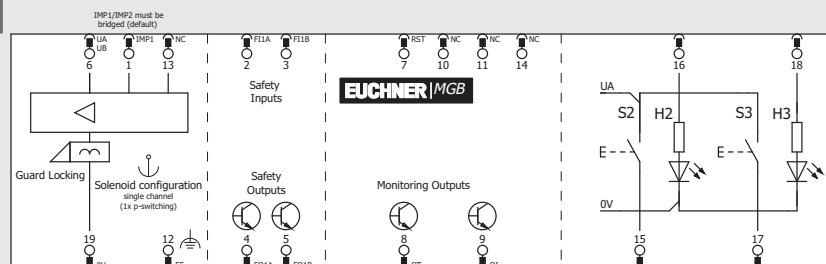
E Cable entry



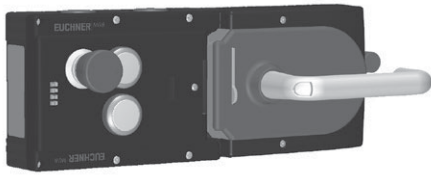
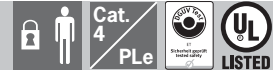
F Plug connector M23



G Plug connector M23



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 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.

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.de

Ordering table

Modules in the set								Ordering data, set	
Version/configuration scheme Order no. separate module	Locking module				Wiring diagram	Handle module Order no. separate module	Escape release Order no. separate module	Door hinge (factory setting)	Order no./item
	S1 H1	S2 H2	S3 H3	S4 H4					
AP	115224 				A	100464	-	Right	115178 MGB-L1H-APA-R-115178
	115225 		wh	wh					
	110585 	-			B	100464	-	Right	110587 MGB-L1H-APA-R-110587
	110586 	-	wh	ye					

(Continued on next page)

Ordering table (continued)

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

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

(Continued on next page)

MGB-AP
MGB-AR

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



Ordering table (continued)

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

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

(Continued on next page)

Ordering table (continued)

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

AR

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


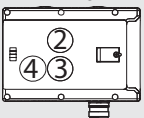




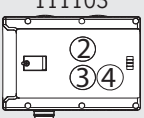




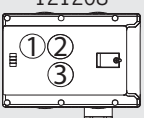




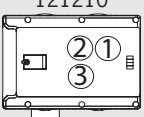




(Continued on next page)

MGB-AP
MGB-AR

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



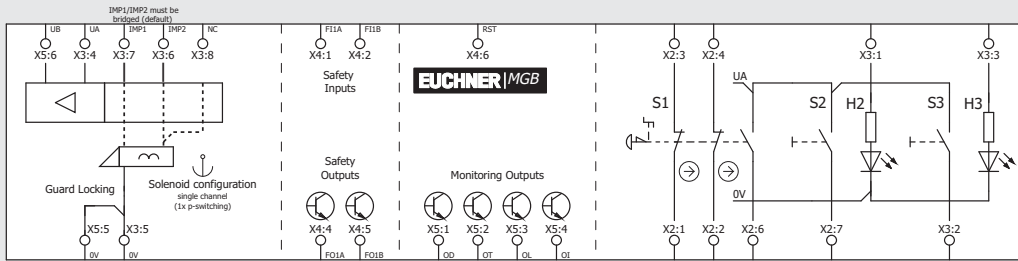
Ordering table (continued)

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

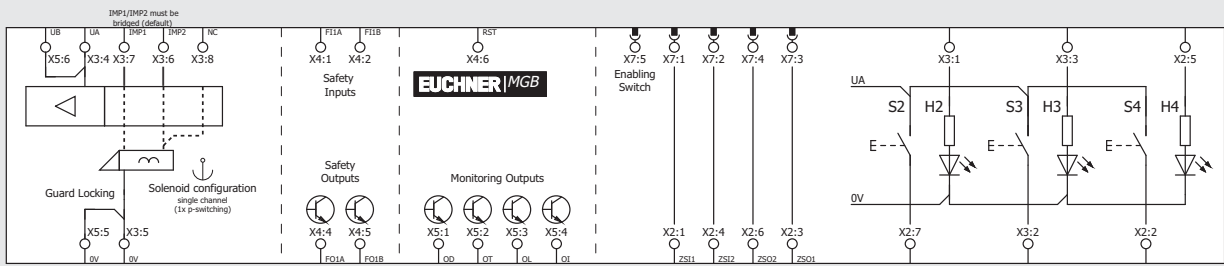
* The color can be selected using the lens set included.

Block diagram and wiring diagram for controls and indicators

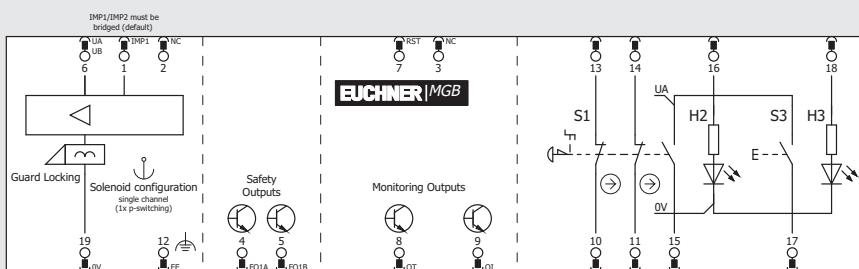
A Cable entry



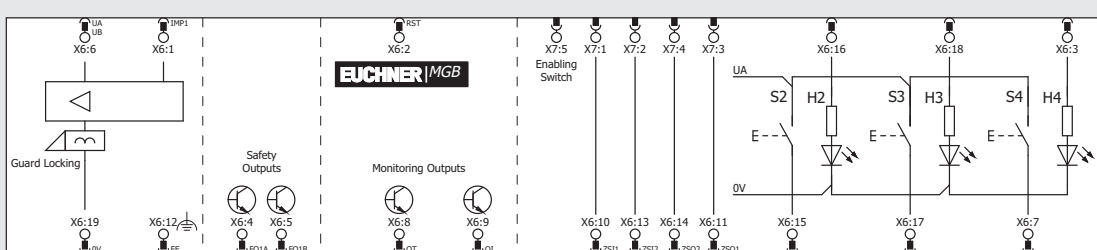
B Cable entry



C Plug connector M23

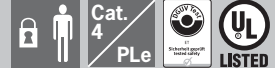


D Plug connector M23



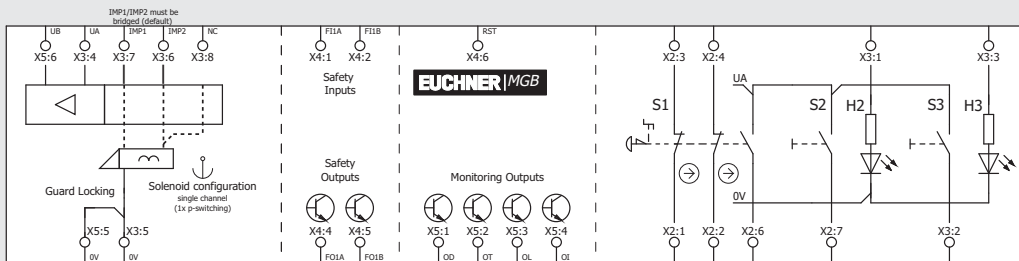
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Locking sets MGB-L1-... (guard locking by spring force) with 3 controls or indicators

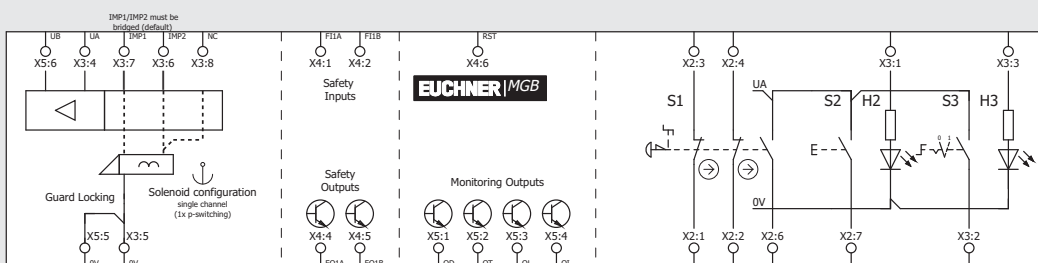


Block diagram and wiring diagrams for controls and indicators(continued)

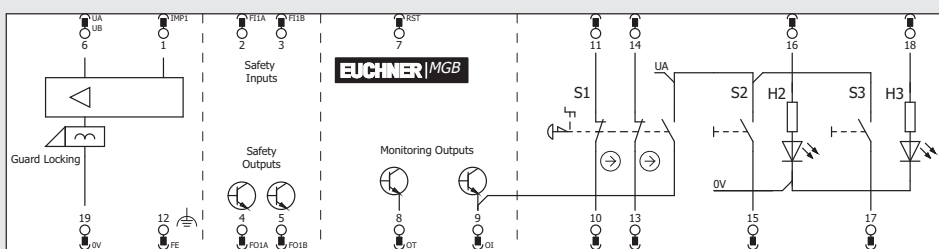
E Cable entry



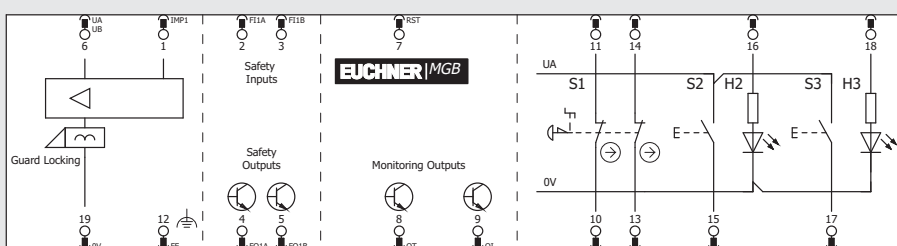
F Cable entry



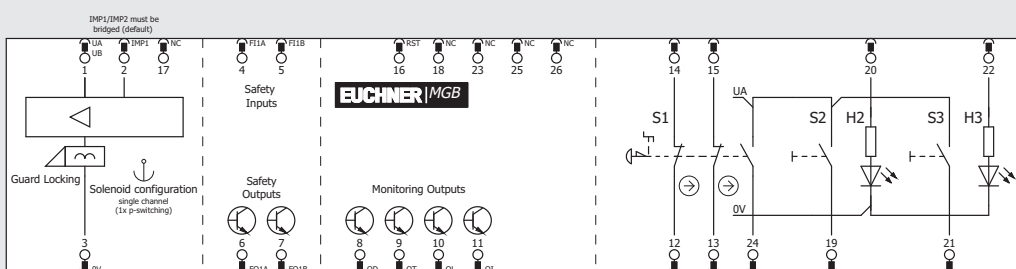
G Plug connector M23



H Plug connector M23



I Plug connector RC26

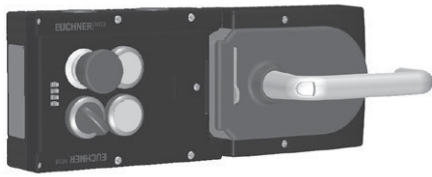
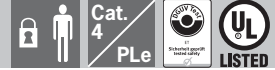




MGB-AP

MGB-AR

Locking sets MGB-L1-... (guard locking by spring force) with 4 controls or 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 pushbutton can be selected using the lens set 120344 included.

Selector switch, illuminated


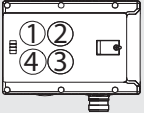






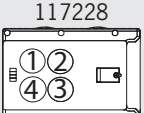





Selector switch with 2 positions (form V, 90°). The switch latches in both positions.

Further information

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

- ▶ 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

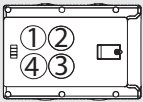





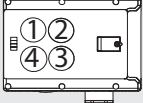





Ordering table

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

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

(Continued on next page)

Ordering table (continued)

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

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

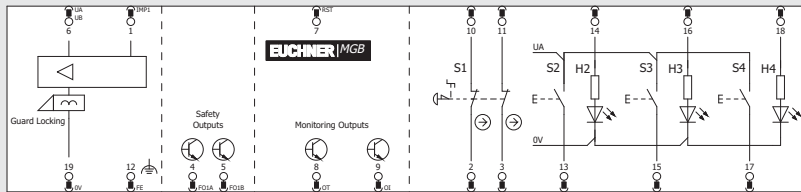
MGB-AP
MGB-AR

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

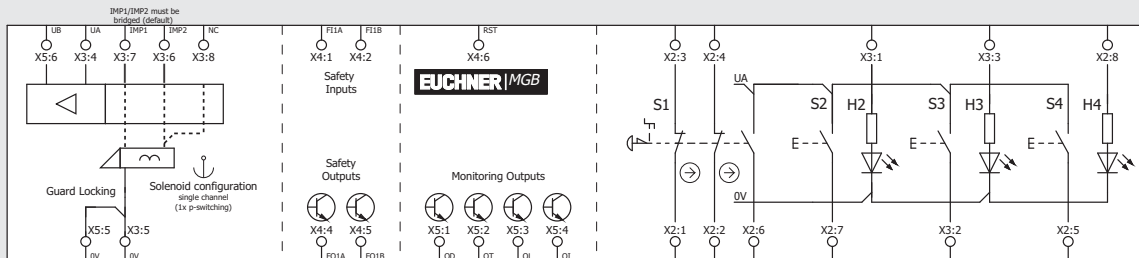


Block diagram and wiring diagrams for controls and indicators

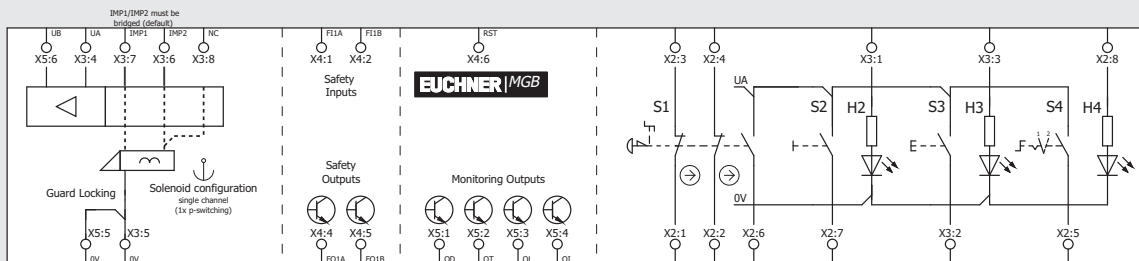
A Plug connector M23



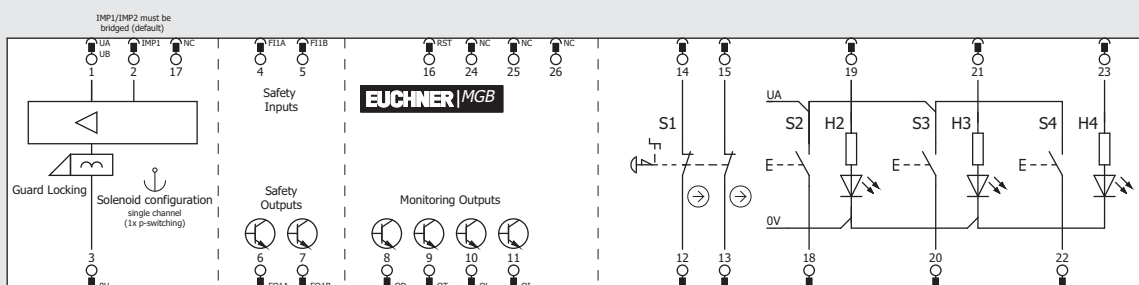
B Cable entry



C Cable entry



D Plug connector RC26

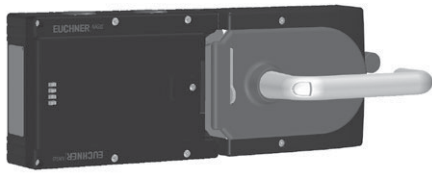




MGB-AP

MGB-AR

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


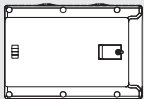
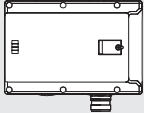
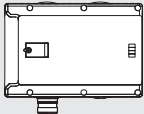


Further information

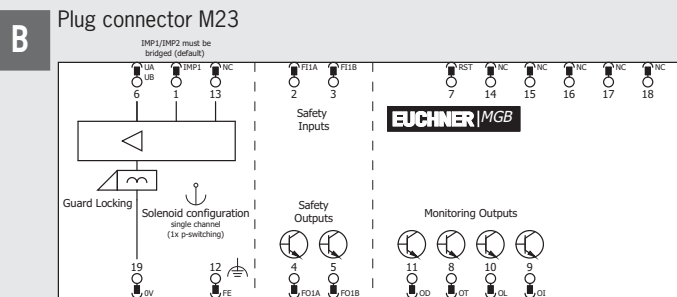
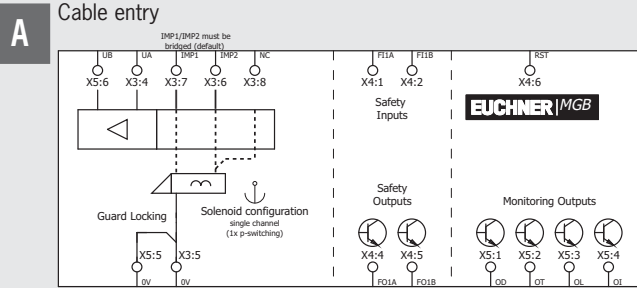
- ▶ Dimension drawings see p. 51
- ▶ Technical data see p. 50
- ▶ Accessories and spare parts see p. 63
- ▶ www.euchner.de

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

Ordering table

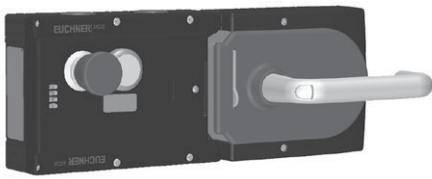
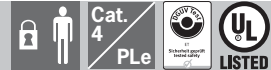
Modules in the set							Ordering data, set		
Version/configuration scheme <small>Order no. separate module</small>	Locking module				Wiring diagram	Handle module <small>Order no. separate module</small>	Escape release <small>Order no. separate module</small>	Door hinge <small>(factory setting)</small>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

Block diagram



MGB-AP
MGB-AR

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

- ▶ 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


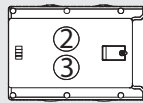
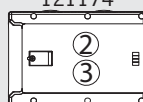
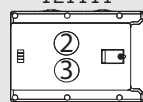


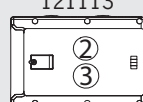
Ordering table

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

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

(Continued on next page)

Ordering table (continued)

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

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

MGB-AP
MGB-AR

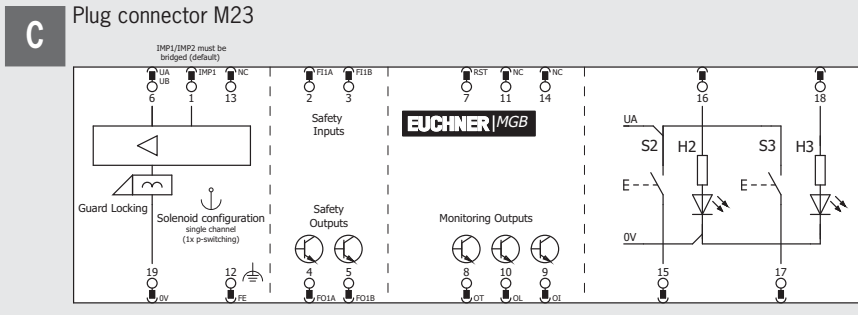
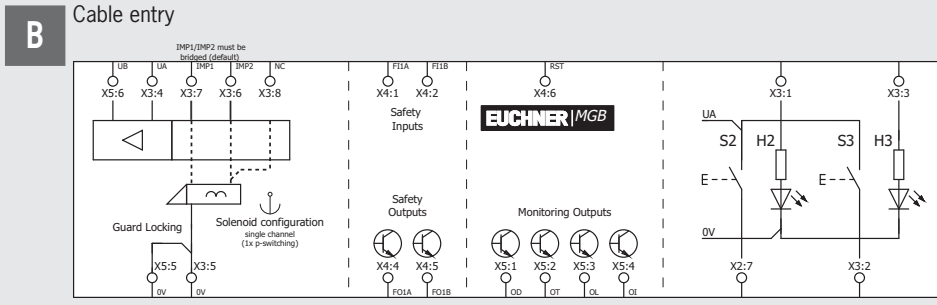
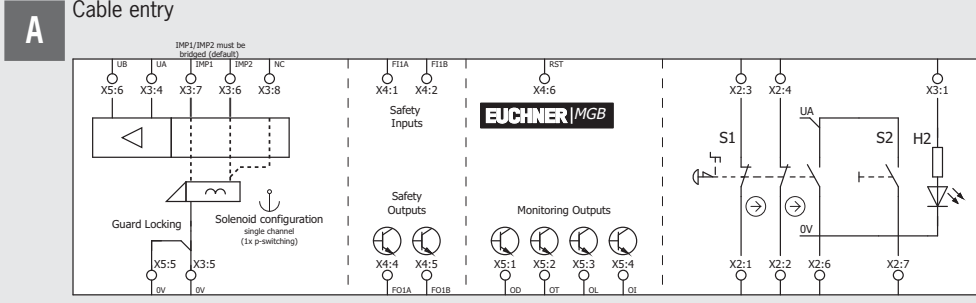
Locking sets MGB-L2-... (guard locking by solenoid force) with 2 controls or indicators



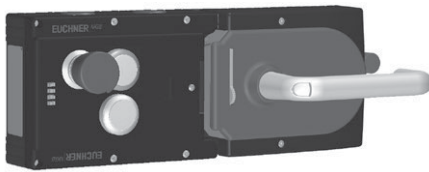
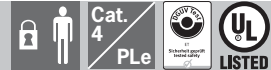
Cat. 4
PLe



Block diagram and wiring diagrams for controls and indicators



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 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.

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.de

Ordering table

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

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

(Continued on next page)

Ordering table (continued)

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

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

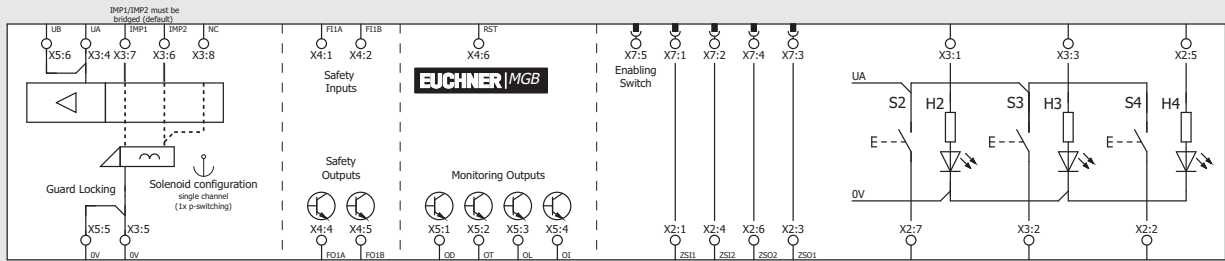
MGB-AP
MGB-AR

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

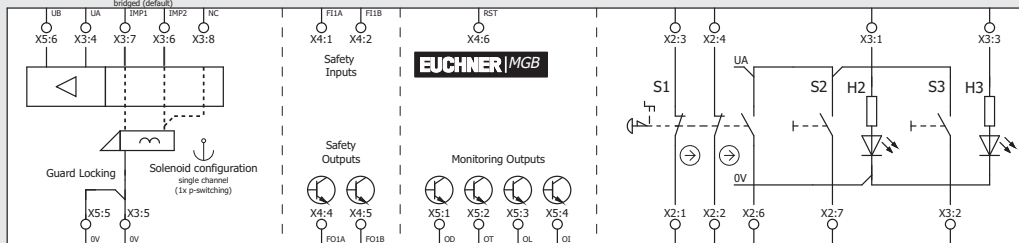


Block diagram and wiring diagrams for controls and indicators

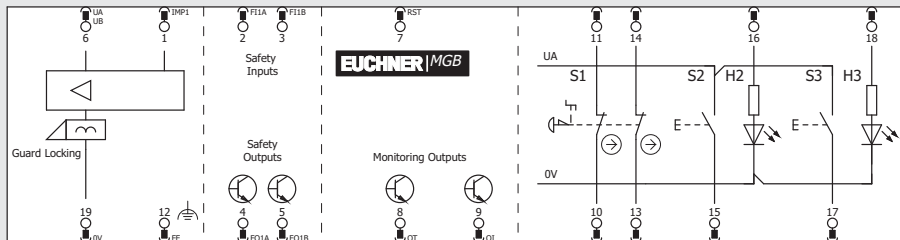
A Cable entry



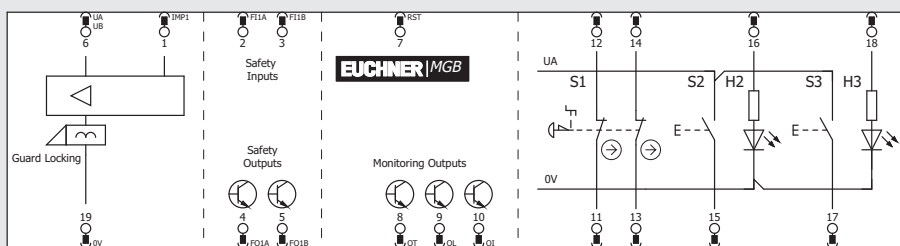
B Cable entry



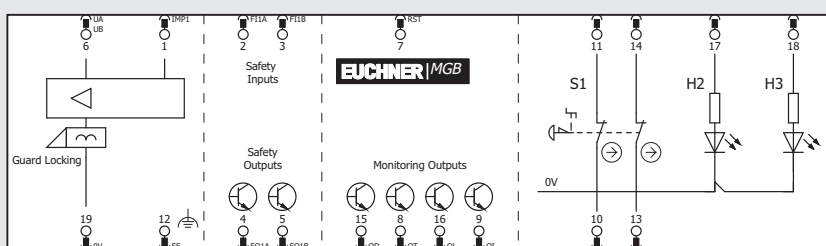
C Plug connector M23



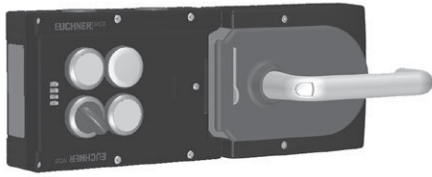
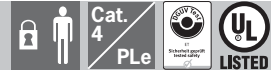
D Plug connector M23



E Plug connector M23



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



Details

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.

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


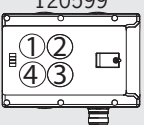






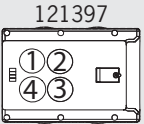





Selector switch with 2 positions (form V, 90°). The switch latches in both positions.

Further information

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

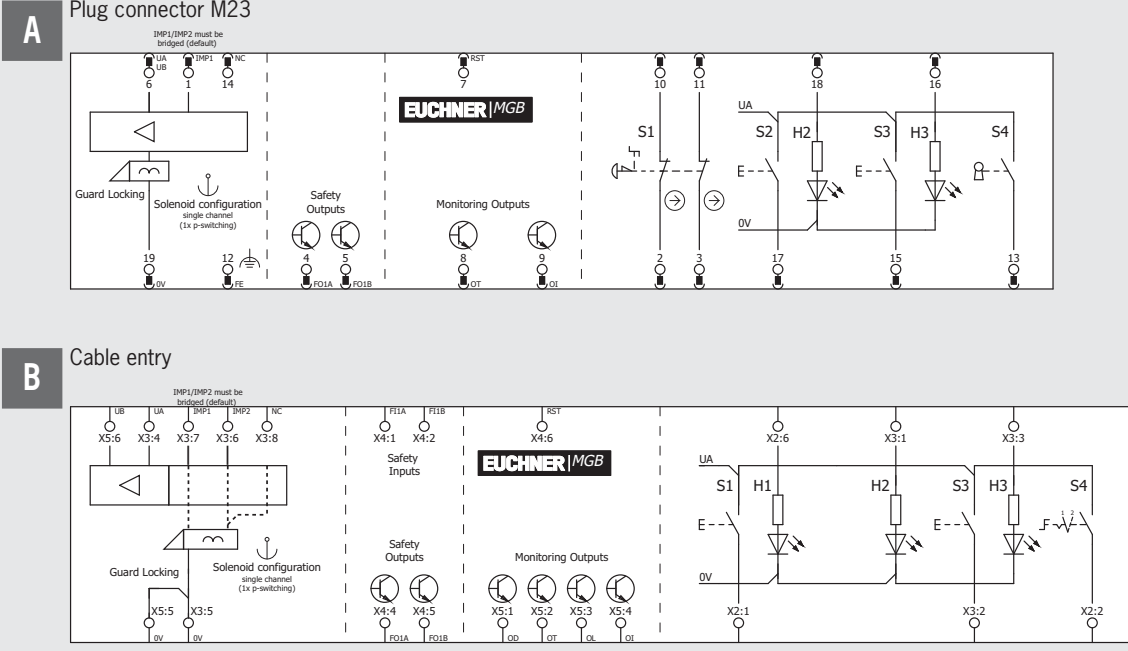
- ▶ Can be connected in series with other AR devices (e.g. CES-AR, CET-AR and CTP-AR)
- ▶ With cable entry or plug connector
- ▶ Integrated controls and indicators

Ordering table

Modules in the set							Ordering data, set		
Version/configuration scheme Order no. separate module	Locking module				Wiring diagram	Handle module Order no. separate module	Escape release Order no. separate module	Door hinge (factory setting)	Order no./item
	S1 H1	S2 H2	S3 H3	S4 H4					
 120599  Incl. adhesive labels IP54		 *)	 *)	 Form V 40°		111157	100465	Right	120600 MGB-L2HE-APA-R-120600
						111158		Left	
 121397  Incl. adhesive labels IP54	 *)		 *)	 Form V 90°		100464	-	Right	121398 MGB-L2H-ARA-R-121398
						106619		Left	

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

Block diagram and wiring diagrams for controls and indicators



MGB-AP
MGB-AR

Technical data

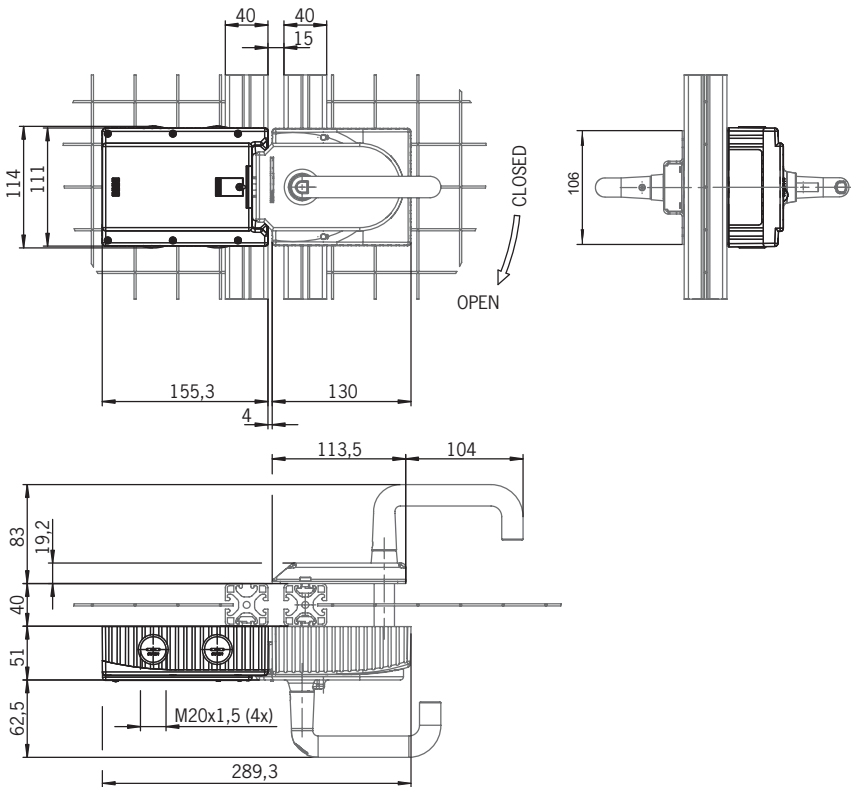
Parameter	Value	Unit
Housing material	Fiber glass reinforced plastic Die-cast zinc, nickel-plated Stainless steel	
Dimensions	See dimension drawing	
Weight		
Locking module	0.75	kg
Handle module	1.00	
Escape release	0.50	
Ambient temperature at $U_B = DC 24 V$	-20 ... +55	°C
Degree of protection		
Cover not populated/populated with push buttons/ indicators	IP65 IP54	
Cover populated with key-operated switch		
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)	0.13 ... 1.5 (AWG 24 ... AWG 16)	mm ²
- With ferrule according to DIN 46 228/1	0.25 ... 1.5	
- With ferrule with collar according to DIN 46228/1	0.25 ... 0.75	
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 - Push button 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⁾		V DC
HIGH U_{FO1A} / U_{FO1B}	$U_B - 2V ... U_B$	
LOW U_{FO1A} / U_{FO1B}	0 ... 1	
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	In acc. with EN IEC 60947-5-3	
Switching frequency	0.25	Hz
EMC protection requirements	In acc. with EN IEC 60947-5-3	
Reliability values according to EN ISO 13849-1		
Category	4	
Performance Level	PL e	
PFH_d	$3.1 \times 10^{-9} / h^{2)}$	
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 lengths.

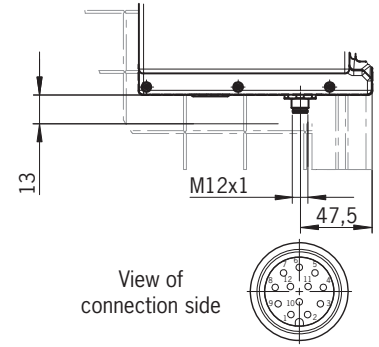
2) Applying the limit value from EN ISO 13849-1:2008, section 4.5.2 ($MTTF_d = \max. 100 \text{ years}$), the employers' liability insurance association certifies a PFH_d of max. 2.47×10^{-9} .

Dimension drawings

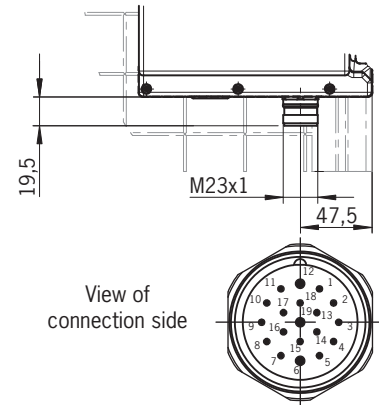
► MGB-... without additional controls and indicators



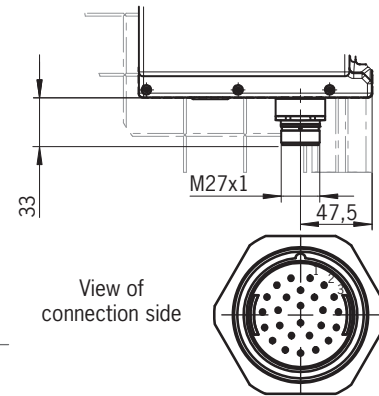
► Plug connector M12



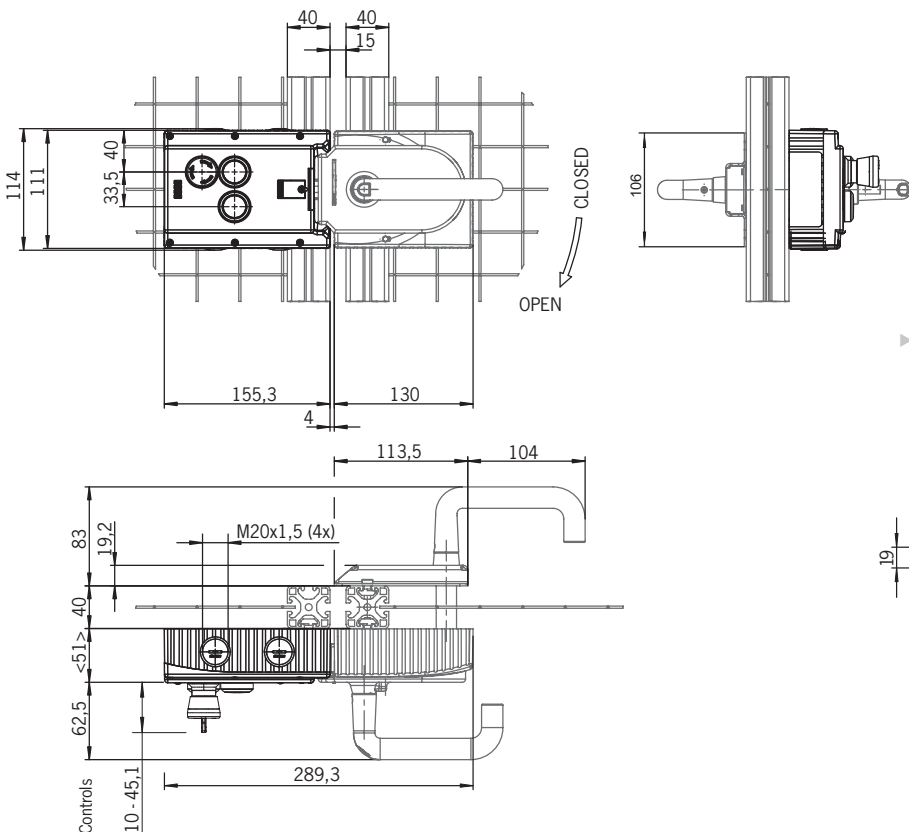
► Plug connector M23



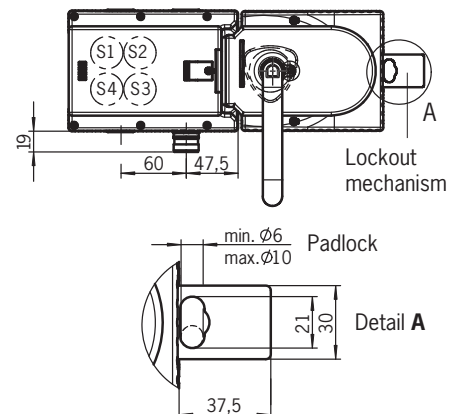
► Plug connector RC26



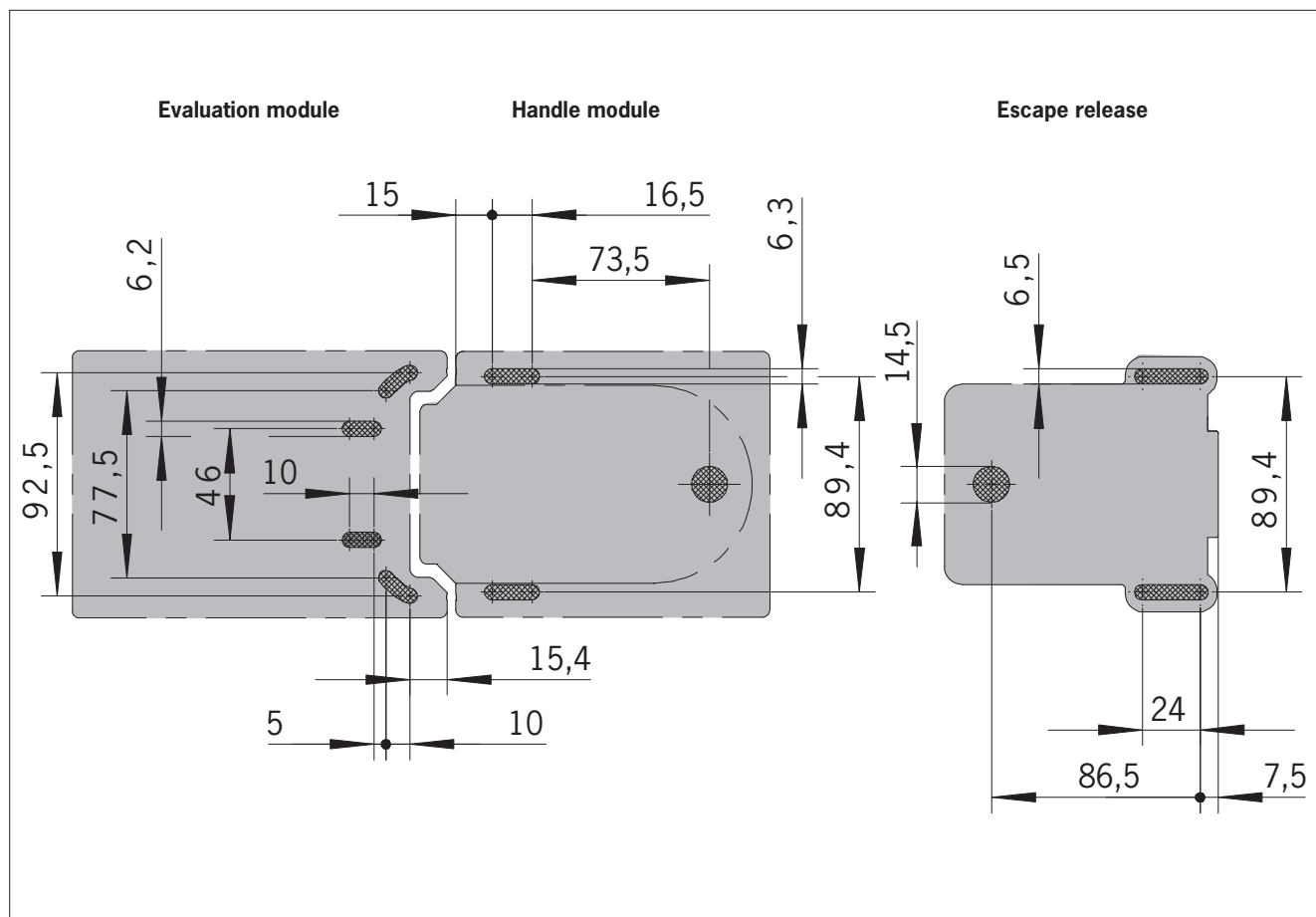
► MGB-... with additional controls and indicators



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

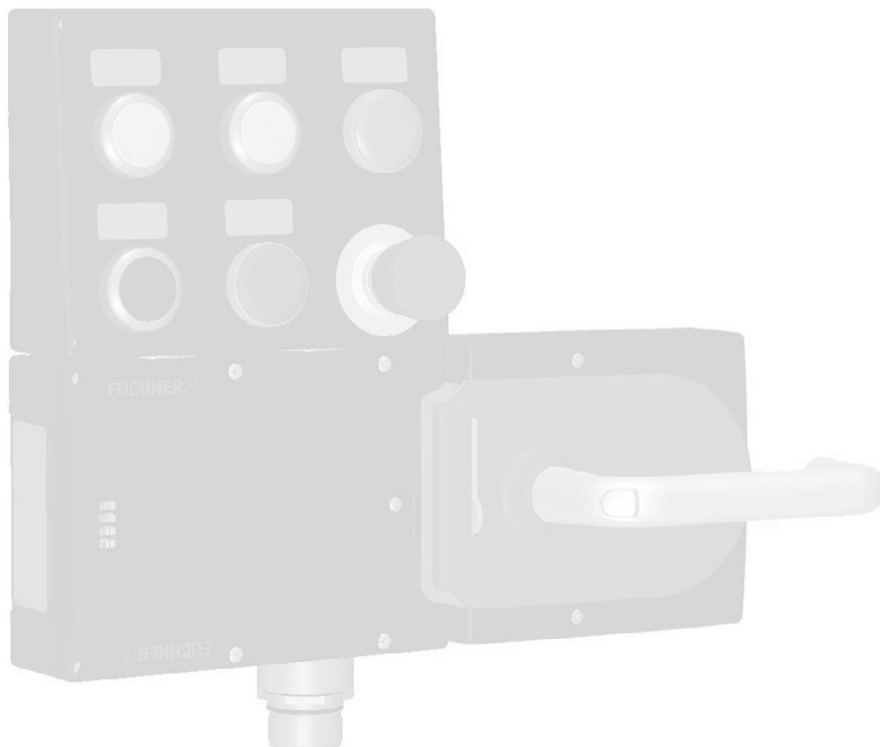


Drilling pattern



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



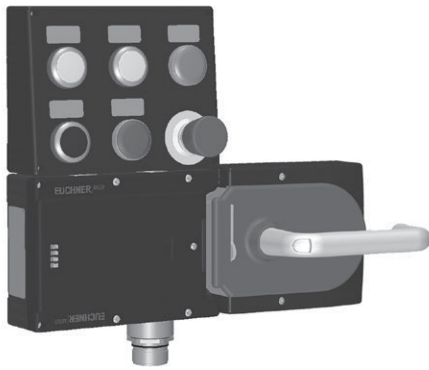
MGB-AR

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



Cat. 4
PLe



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.de

- ▶ 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

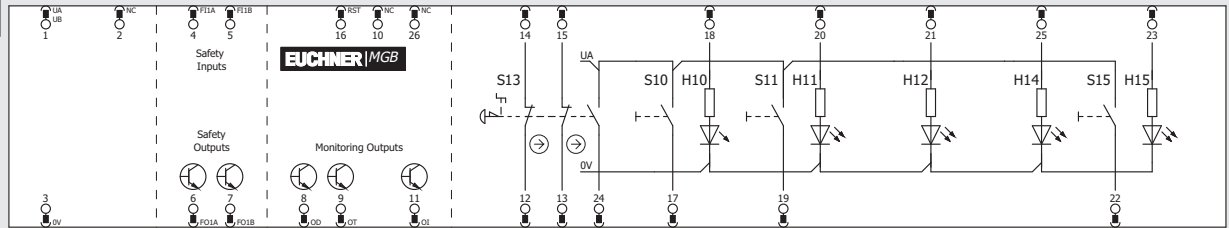
Ordering table

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

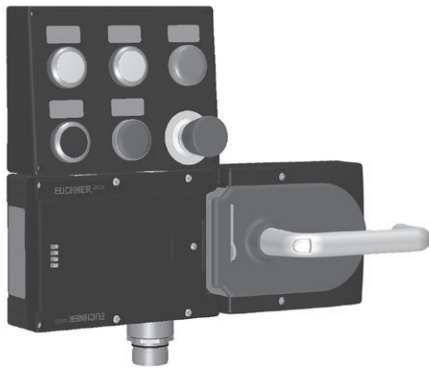
Block diagram

A

Plug connector RC26



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



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

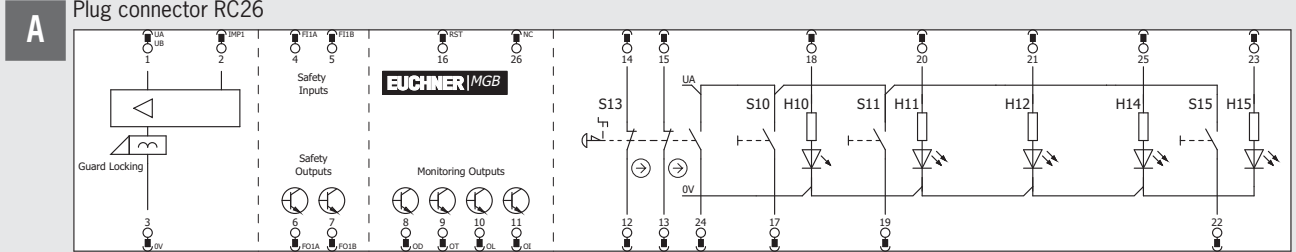
- ▶ Dimension drawings see p. 61
- ▶ Technical data see p. 60
- ▶ Accessories and spare parts see p. 63
- ▶ www.euchner.de

- ▶ 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

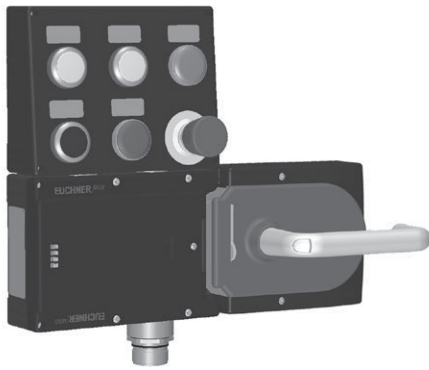
Ordering table

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

Block diagram



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



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

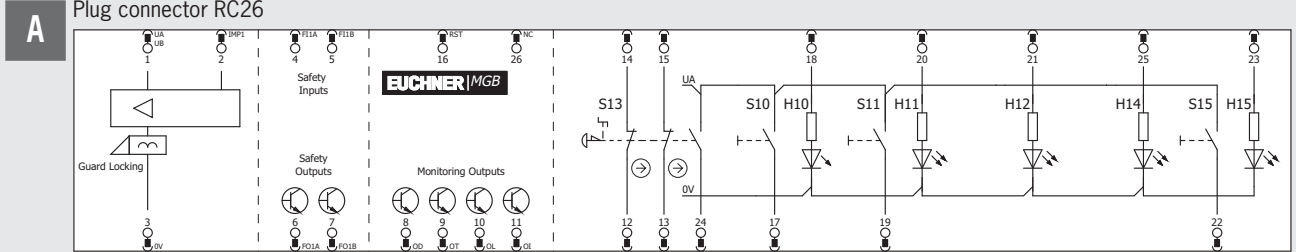
- ▶ Dimension drawings see p. 61
- ▶ Technical data see p. 60
- ▶ Accessories and spare parts see p. 63
- ▶ www.euchner.de

- ▶ 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

Ordering table

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

Block diagram



Technical data

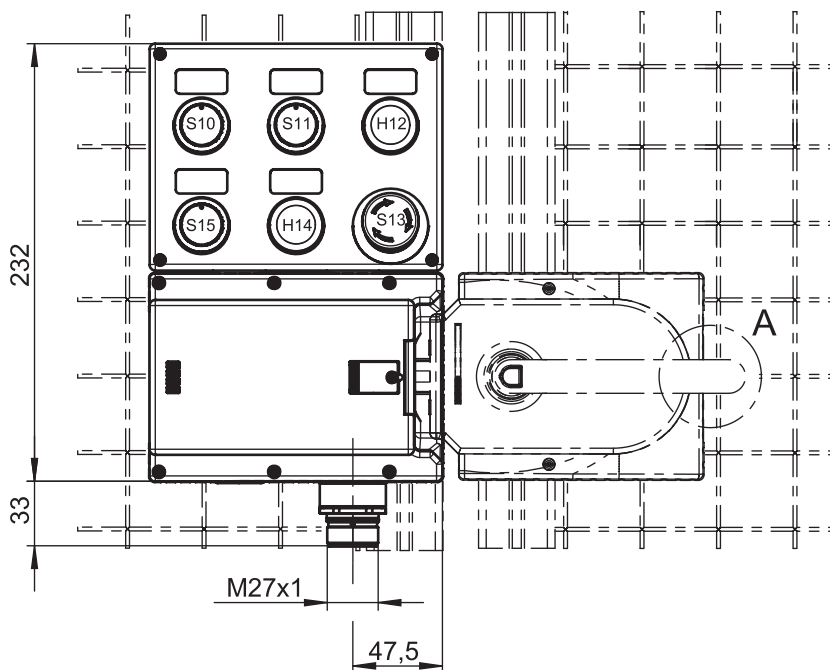
Parameter	Value	Unit
Housing material	Fiber glass reinforced plastic Die-cast zinc, nickel-plated Stainless steel	
Dimensions	See dimension drawing	
Weight		
Locking module	0.75	kg
Handle module	1.00	
Escape release	0.50	
Ambient temperature at $U_B = DC 24 V$	-20 ... +55	°C
Degree of protection		
Cover not populated/populated with push buttons/ indicators	IP65 IP54	
Cover populated with key-operated switch		
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)	0.13 ... 1.5 (AWG 24 ... AWG 16)	mm ²
- With ferrule according to DIN 46 228/1	0.25 ... 1.5	
- With ferrule with collar according to DIN 46228/1	0.25 ... 0.75	
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 - Push button 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 $U_{FO1A} / U_{FO1B}^{1)}$		V DC
HIGH U_{FO1A} / U_{FO1B}	$U_B - 2V ... U_B$	
LOW U_{FO1A} / U_{FO1B}	0 ... 1	
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	In acc. with EN IEC 60947-5-3	
Switching frequency	0.25	Hz
EMC protection requirements	In acc. with EN IEC 60947-5-3	
Reliability values according to EN ISO 13849-1		
Category	4	
Performance Level	PL e	
PFH_d	$3.1 \times 10^{-9} / h^{2)}$	
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 lengths.

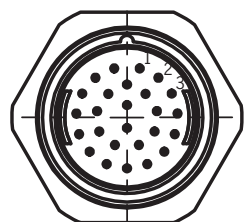
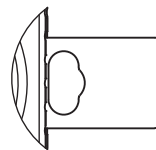
2) Applying the limit value from EN ISO 13849-1:2008, section 4.5.2 ($MTTF_d = \max. 100 \text{ years}$), the employers' liability insurance association certifies a PFH_d of max. 2.47×10^{-9} .

Dimension drawings

► MGB-L.HC-AR



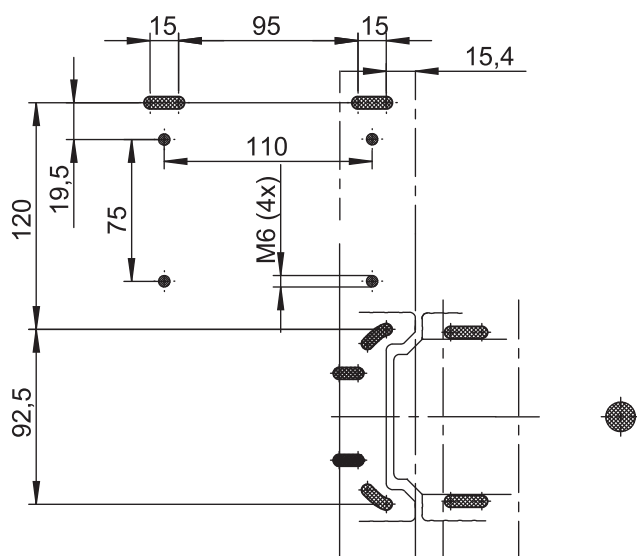
Detail A



Plug connector RC26

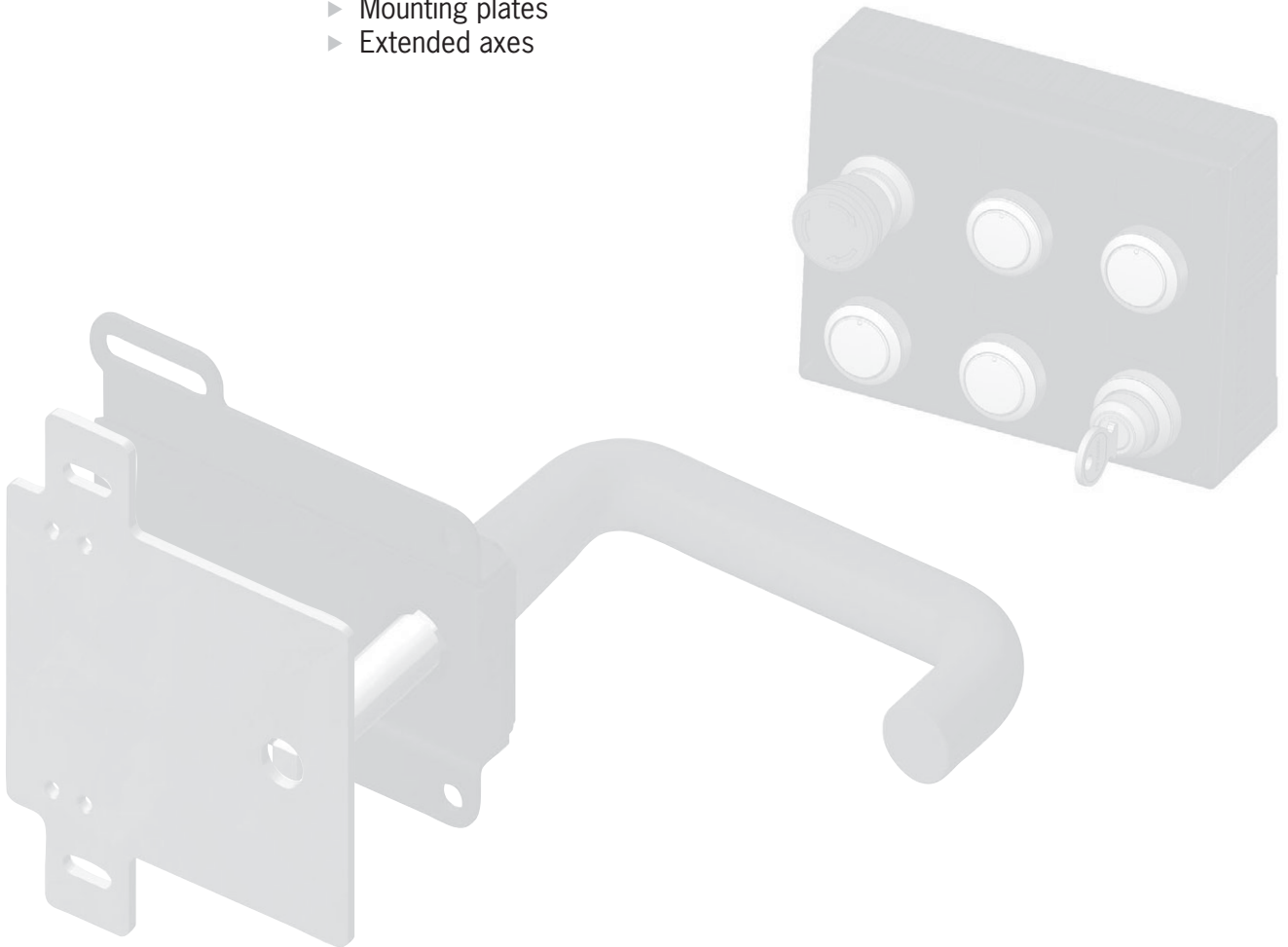
View of connection side

Drilling pattern



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

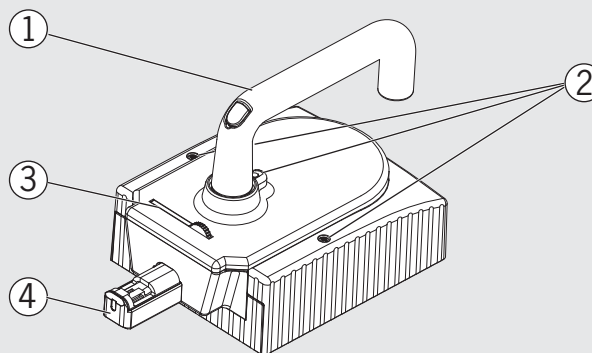
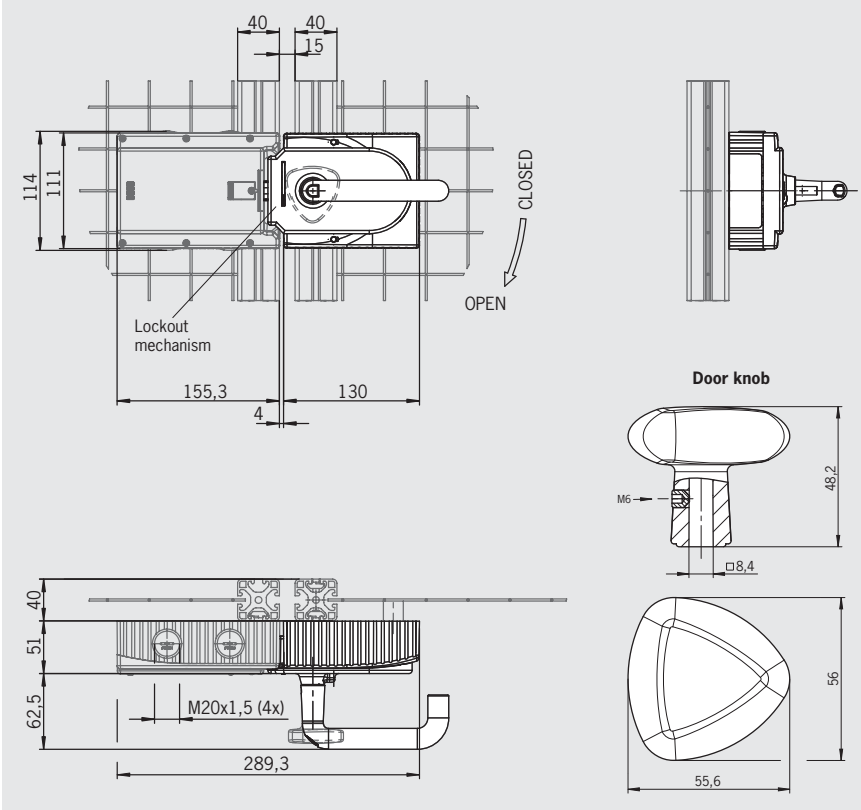
The MGB has a robust door handle that can be rotated in 90° steps to suit all installations. The actuating direction can be changed very easily for doors hinged on the left or right.

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

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

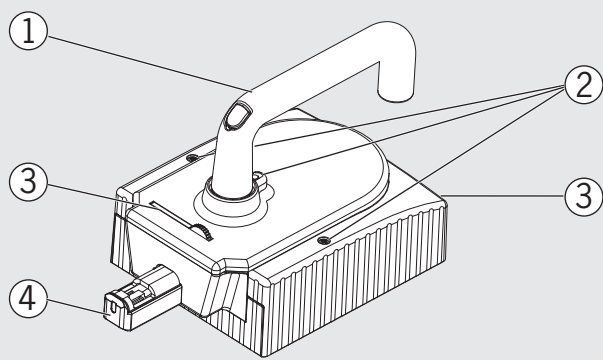
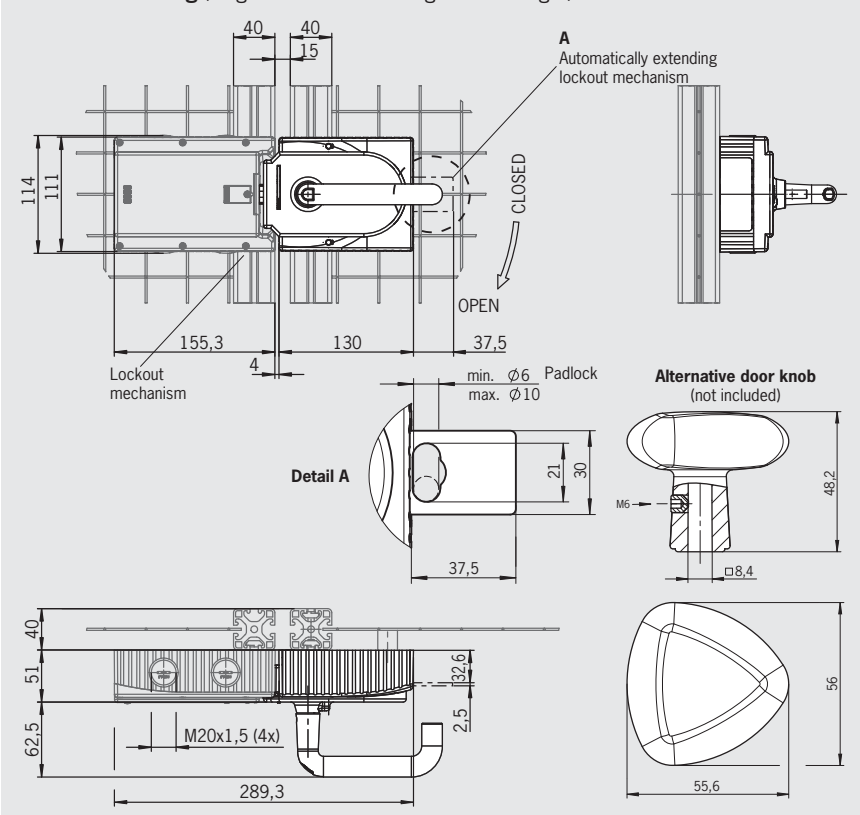
The MGB has a robust door handle that can be rotated in 90° steps to suit all installations. The actuating direction can be changed very easily for doors hinged on the left or right.

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

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-AA1A3R-111157
	With door handle and fold-out lockout mechanism, can be locked using escape release , black housing with red cover	116813 MGB-H-AA1B2R-116813
MGB-H... Handle module left	With fold-out and also second automatically extending lockout mechanism, black housing with red cover	111158 MGB-H-AA1A3L-111158
	With door handle and fold-out lockout mechanism, can be locked using escape release , black housing with red cover	116814 MGB-H-AA1B2L-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

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 area. 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.

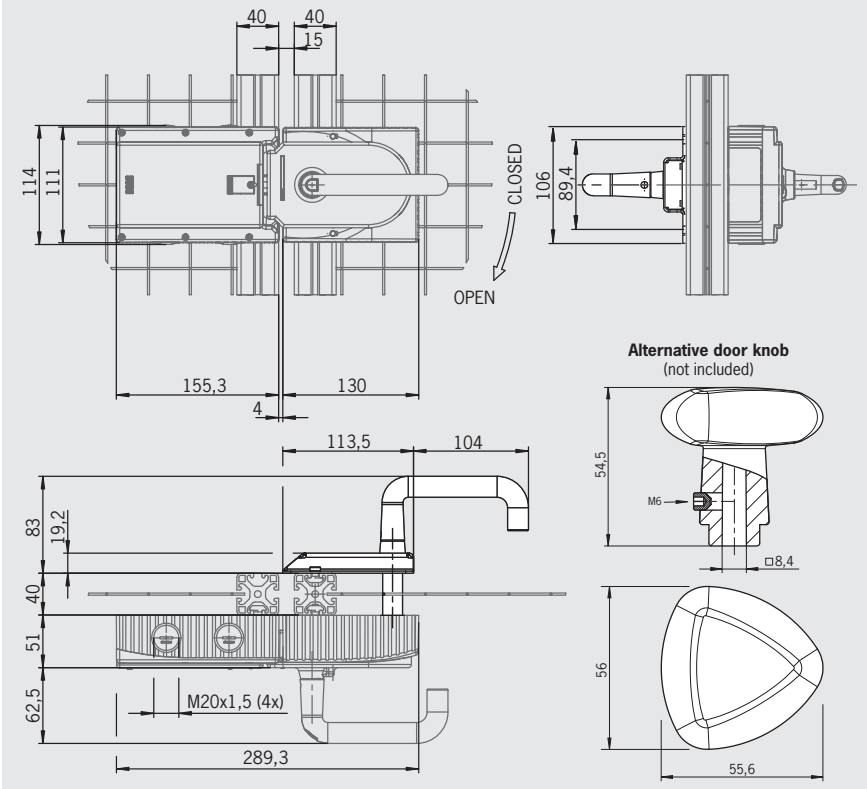
Extended actuation axis

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.

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 8x8 mm

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

Emergency unlocking for auxiliary release/adhesive labels

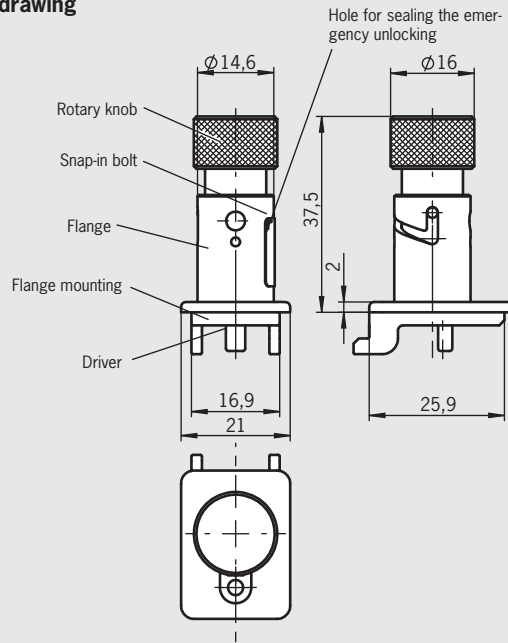
► **Emergency unlocking**

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 free position.

Emergency unlocking MGB-A...

Dimension drawing

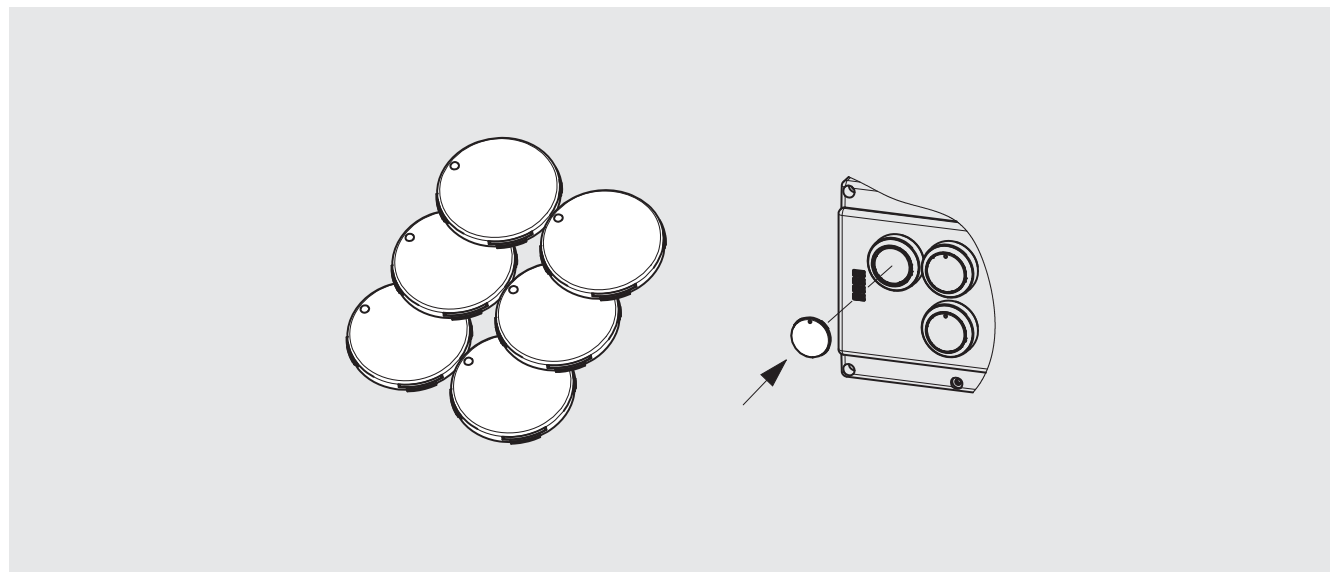


Ordering table

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	87256 Lead seal kit C1937
Adhesive labels silver, blank (packaging unit 10 pcs.)	For evaluation modules MGB	114529 MGB-A-PLATESET-NN01-114529

Lens sets

Lens set



Ordering table

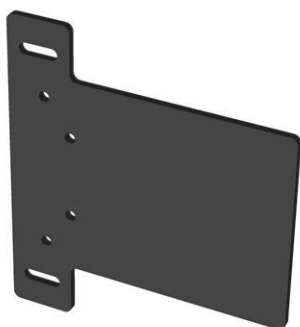
Series / designation	Usage/color		Order no./item
Lens set 3 pcs.	1 x GN	1 x YE	126158 MGB-ALENSSET-SY03-126158
Lens sets 6 pcs.	2 x WH / 1 x BU / 1 x YE / 1 x GN / 1 x RD		120344 MGB-ALENSSET-0001-120344
	1 x WH / 1 x BU / 1 x YE / 1 x GN / 1 x RD / 1 x BK		120378 MGB-ALENSSET-0002-120378
	1 x WH	1 x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

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

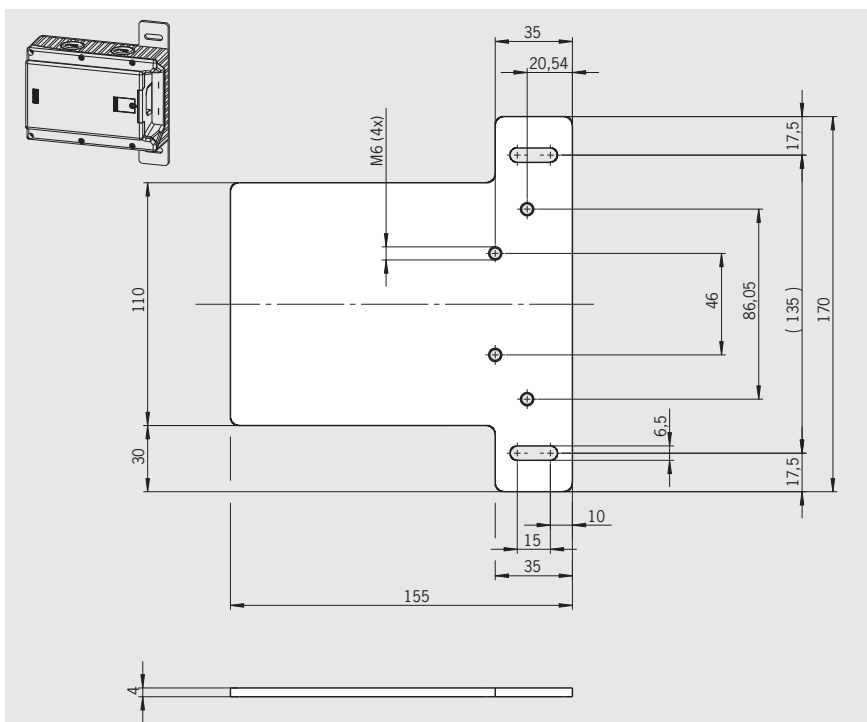
- ▶ Easy and quick mounting (only two screws required)
- ▶ Quick module replacement
- ▶ Robust stainless steel plate
- ▶ Suitable for doors hinged on the right or left

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.



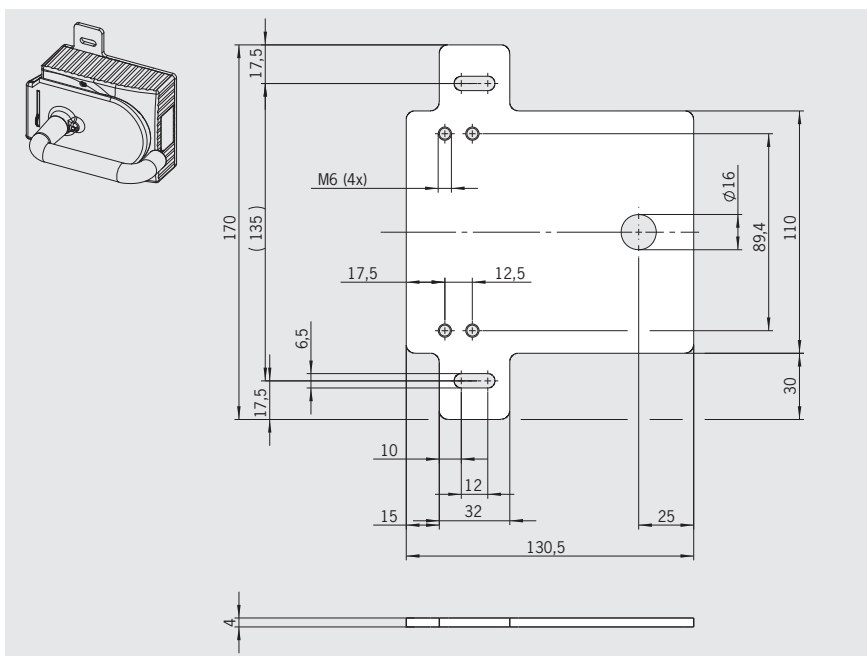
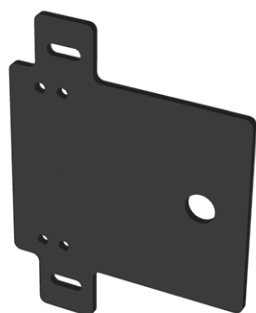
Mounting plate for evaluation module



Mounting plate for handle modules

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.



Ordering table

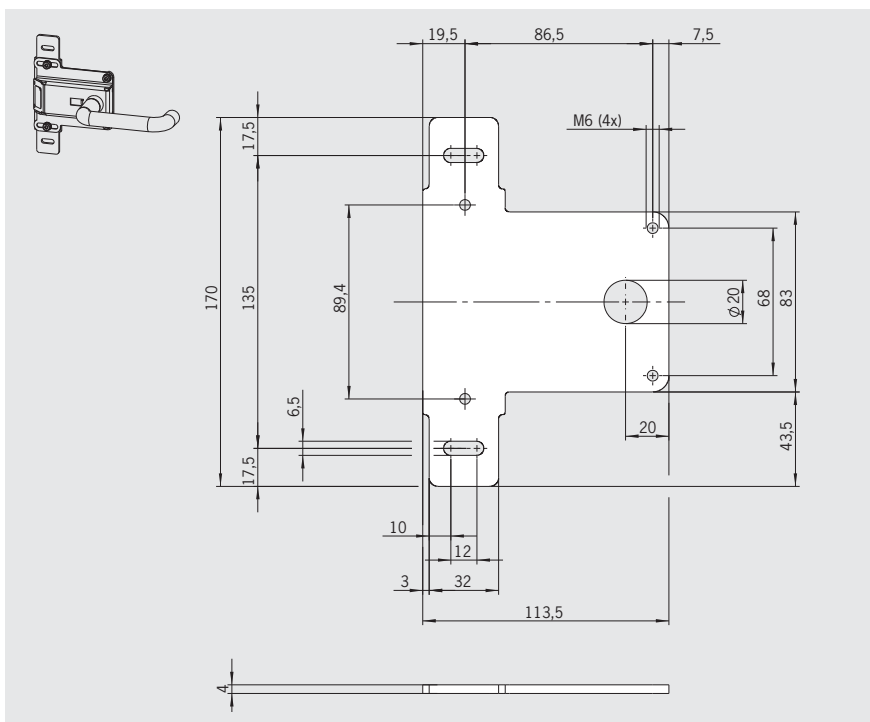
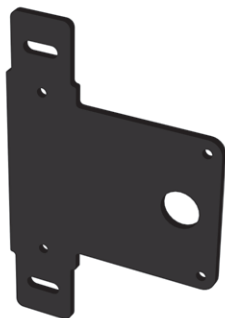
Series / designation	Version	Order no./item
Mounting plate for evaluation module	Suitable for all MGB-L.-AR-... and MGB-L.-AP-...	109490 MGB-A-MOUNTINGPLATE-L-109490
Mounting plate for handle module	Suitable for all MGB handle modules	109491 MGB-A-MOUNTINGPLATE-H-109491
Mounting plate for escape release	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 axis! You may need the longer axis (order no. 106761, see 68).

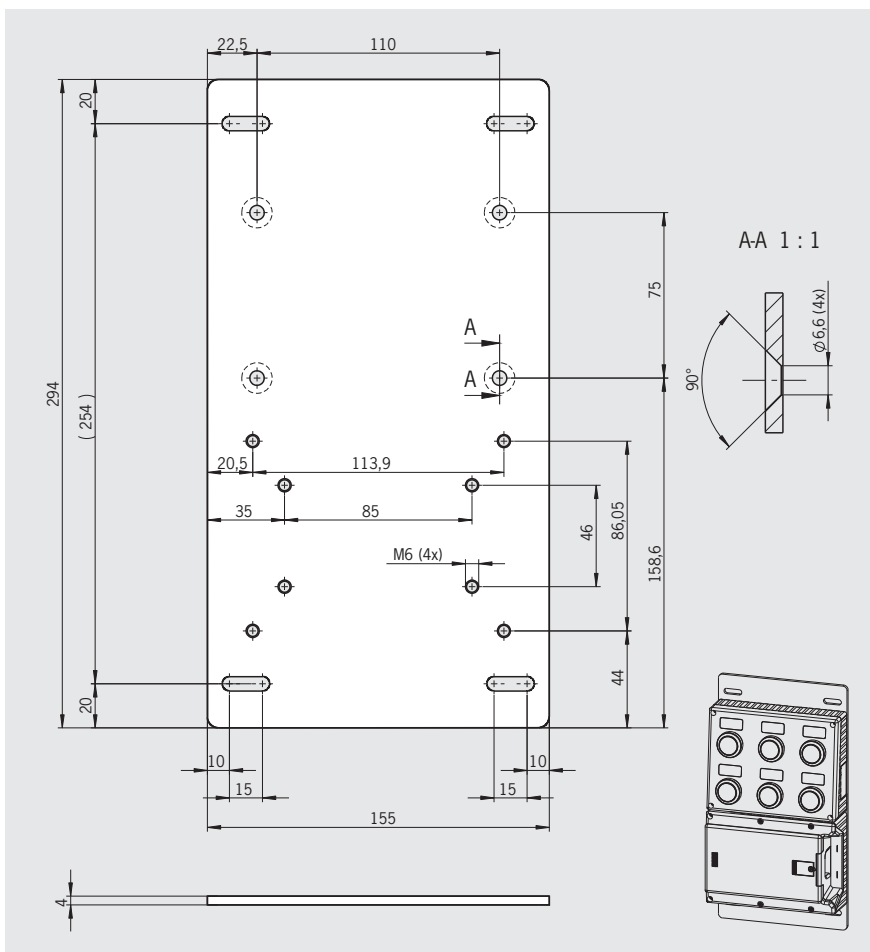
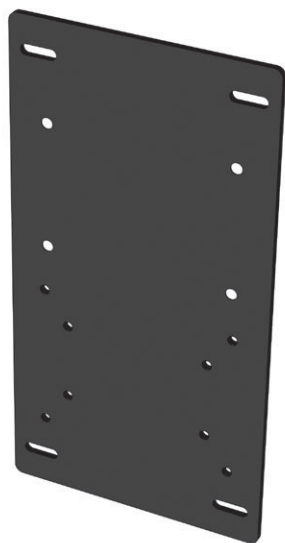


Mounting plate for evaluation module-control module combination

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.

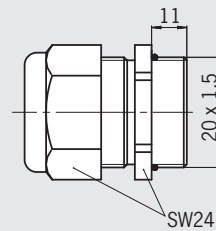


Cable gland

- ▶ 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).

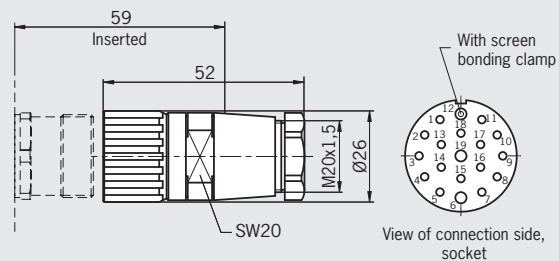
Depending on the cable version, either color-coded or with separately numbered, black cores.

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.

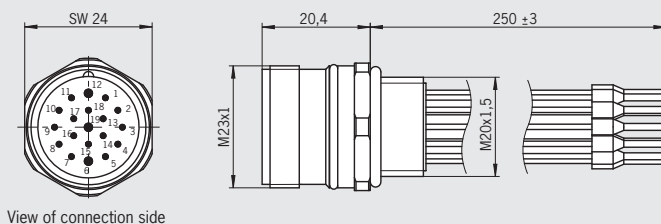
Plug connector RC18 (M23)
19-pin

Dimension drawing



Built-in connector RC18 (M23)
19-pin

Dimension drawing

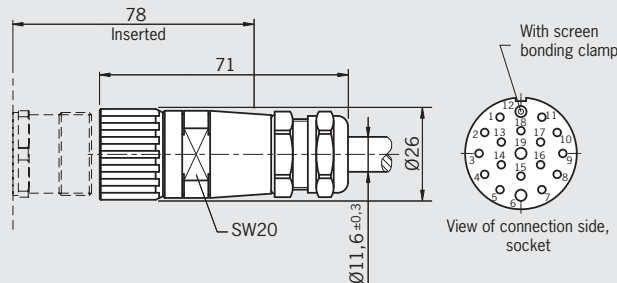


Ordering table

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 mm ² 3 x 0.75 - 1 mm ²	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 [mm ²]	Pin	Conductor coloring	Conductor cross-section [mm ²]
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			

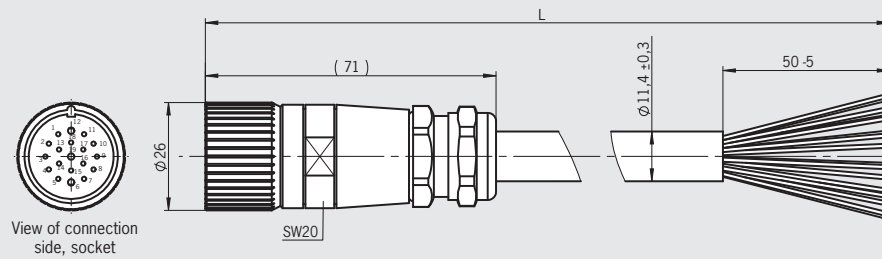
Ordering table

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

Connection cables with plug connector M23

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

Dimension drawing



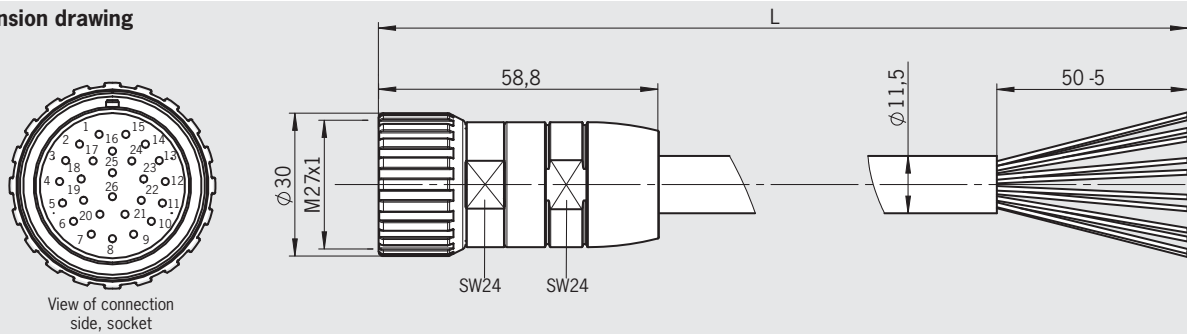
Ordering table

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



Conductor cross-section of connection cable with plug connector RC26

Pin	Conductor cross-section [mm ²]	Pin	Conductor cross-section [mm ²]	Pin	Conductor cross-section [mm ²]
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

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**

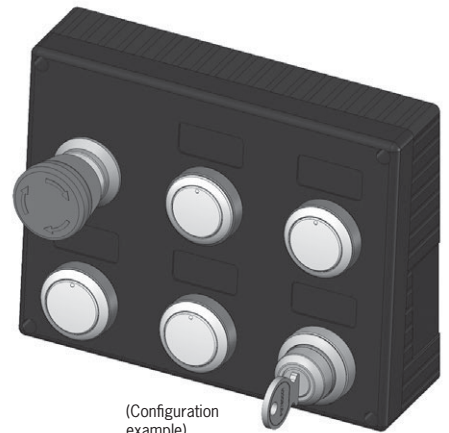
In the control module it is possible to integrate controls such as push buttons, emergency stop, key-operated switches, selector switches or even indicators as required. In this way a complete functional control panel can be built up.

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.

Your advantages

- ▶ 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



(Configuration example)

Control modules MGB-C...



(Configuration example)

Details


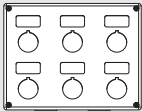
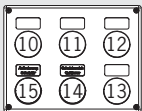


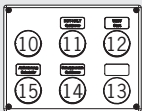





Emergency stop with monitoring contact
Additional normally open contact in the emergency stop, e.g. as monitoring contact for the control system.

Further information

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

▶ 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
Connecting set	2 housing sleeves for gland M20 x 1.5						109524 MGB-A-BUSH-109524

Dimension drawing and configuration example

Control module housing (MGB-C...)

Order No. 109219

Including:

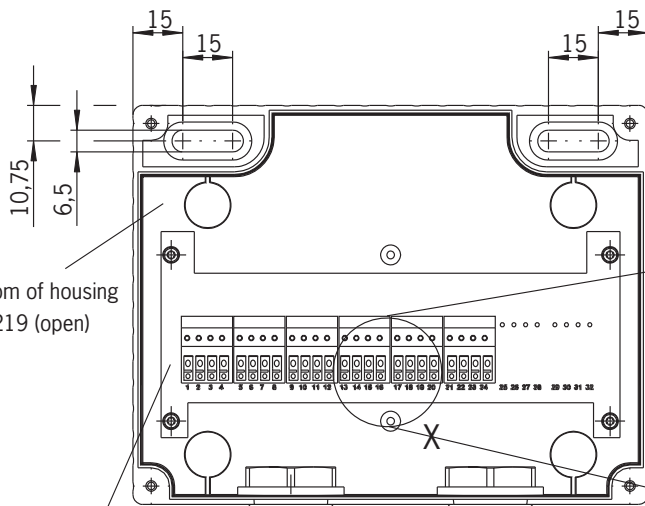
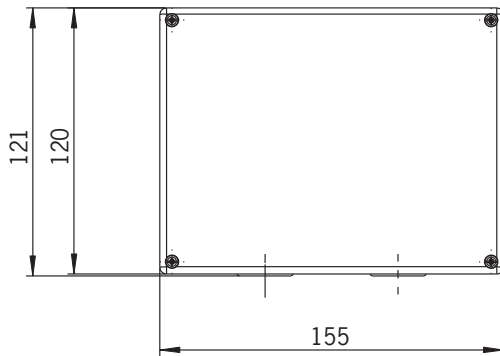
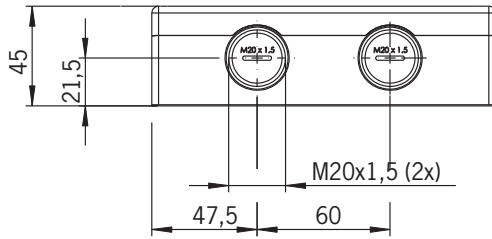
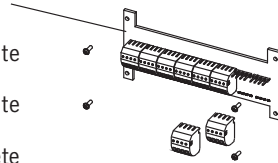
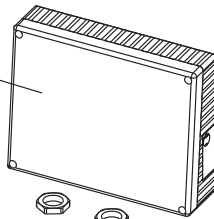
- ▶ 1 x empty housing
- ▶ 1 x cover
- ▶ 2 x dummy plug

Connection kit

Order No. 109858

Including:

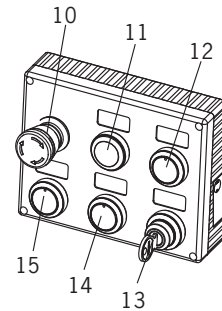
- ▶ 1 pc. printed circuit board with plug-in spring terminals
- ▶ 4 pcs. fixing screws for printed circuit board
- ▶ 7 pcs. flexible wires complete 0.34 mm² red
- ▶ 7 pcs. flexible wires complete 0.34 mm² blue
- ▶ 16 pcs. flexible wires complete 0.34 mm² black
- ▶ 6 pcs. cable straps



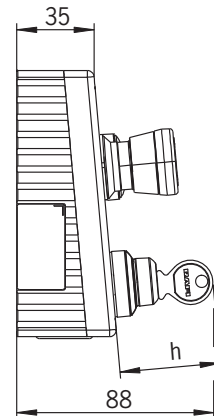
Bottom of housing 109219 (open)

Printed circuit board with connection terminals 109858

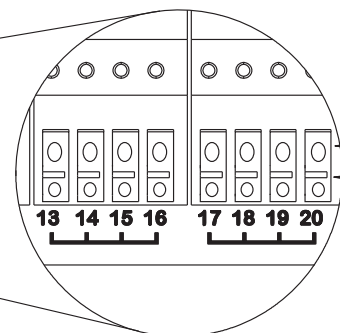
Configuration example



Position	Version	h [mm]
10	Emergency stop push button	33.4
11	Cover for indicators, red	10
12	Cover for indicators, green	
13	Key-operated switch	45.1
14	Illuminated push button	10
15	Illuminated push button	



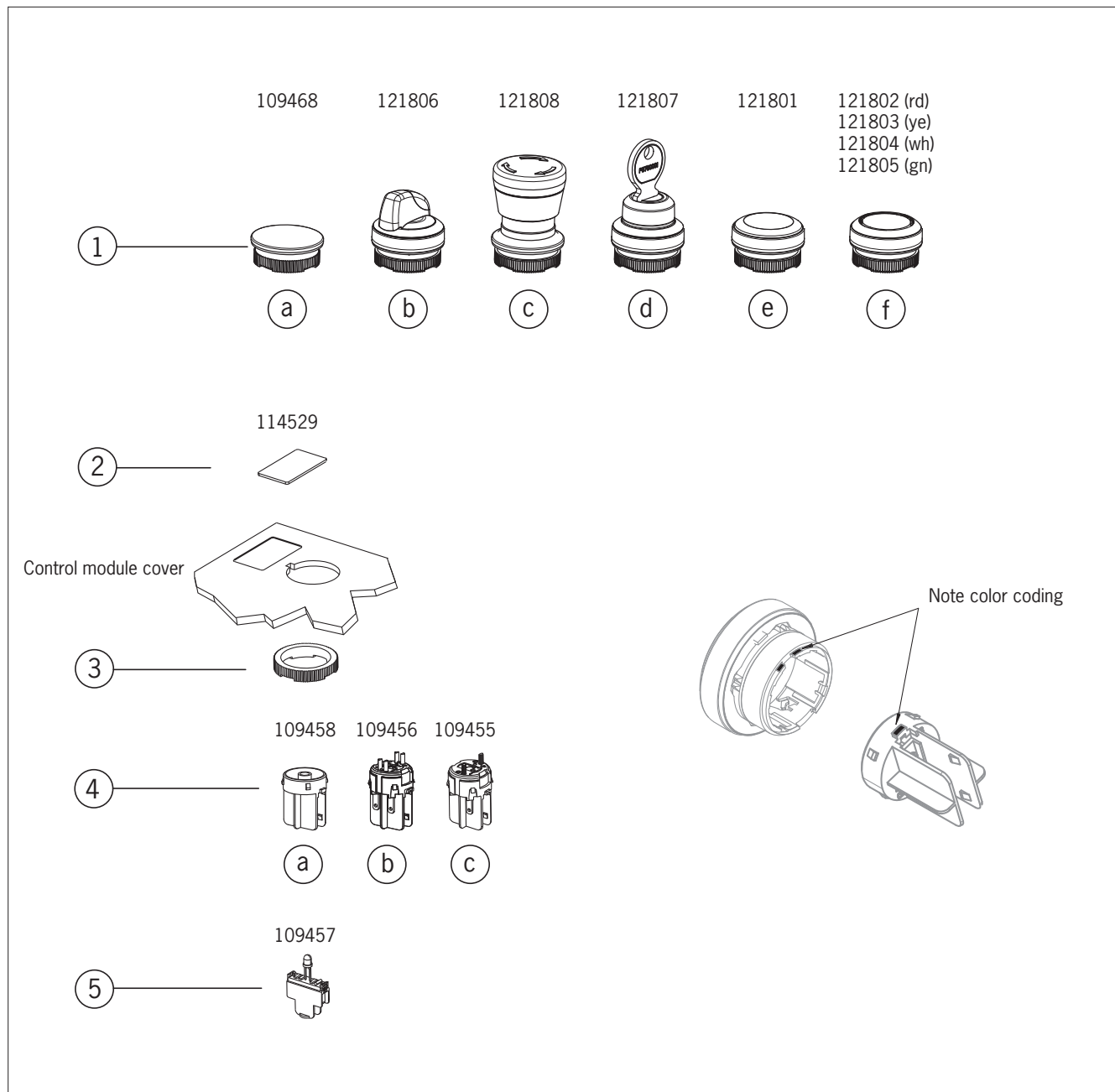
X 1.5 : 1



Controls/indicators
Supply cable

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 109457
- f Cover for indicators, different colors, illumination with 109457

② Adhesive label






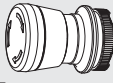






③ Knurled nut (included with item 1)

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

Combination options

	 Switching element Order no. 109455	 Switching element Order no. 109456	 LED holder Order no. 109458
	—		
 LED Order no. 109457	X	-	●
 Emergency stop Order no. 121808 Latching with turn-to-reset	-	●	-
 Key-operated switch (2 positions) Order no. 121807 Incl. 2 keys Key removable in both positions	● 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 109457 (LED)

Spare parts and accessories

Designation	Description	Order no.	Item	
Blind plug		109468	MP-AB-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-RO-RD-00-121802 MP-B-L-RO-YE-00-121803 MP-B-L-RO-WH-00-121804 MP-B-L-RO-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	
Connecting 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 109455	MP-A-C-GM-21-00-109456 MP-A-C-GU-01-00-109455	
LED holder		109458	MP-A-C-CH-00-00-109458	
LED element	LED, white	109457	MP-A-C-LC-WH-00-109457	
Lens set 3 pcs.	1 x GN  1 x YE 	126158	MGB-A-LENSET-SY03-126158	
	1 x WH 			
Lens sets 6 pcs.	2 x WH/1 x BU/ 1 x YE/ 1 x GN/ 1 x RD		120344	MGB-A-LENSET-0001-120344
	1 x WH/1 x BU/ 1 x YE/ 1 x GN/ 1 x RD/1 x BK		120378	MGB-A-LENSET-0002-120378
	1 x WH  1 x WH 	120377	MGB-A-LENSET-SY01-120377	
	1 x GN  1 x WH 			
1 x WH  1 x WH 				
Lens set 15 pcs.	1 x WH	4 x BK	125359	MGB-A-LENSET-SY02-125359
	1 x WH  1 x WH 			
	2 x WH  2 x WH 			
	1 x WH OK 1 x WH 			
	1 x WH  1 x WH 			

Technical data

Empty housing

Parameter	Value
Housing material	Reinforced thermoplastic
Ambient temperature	-20 ... 55 °C
Degree of protection acc. 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

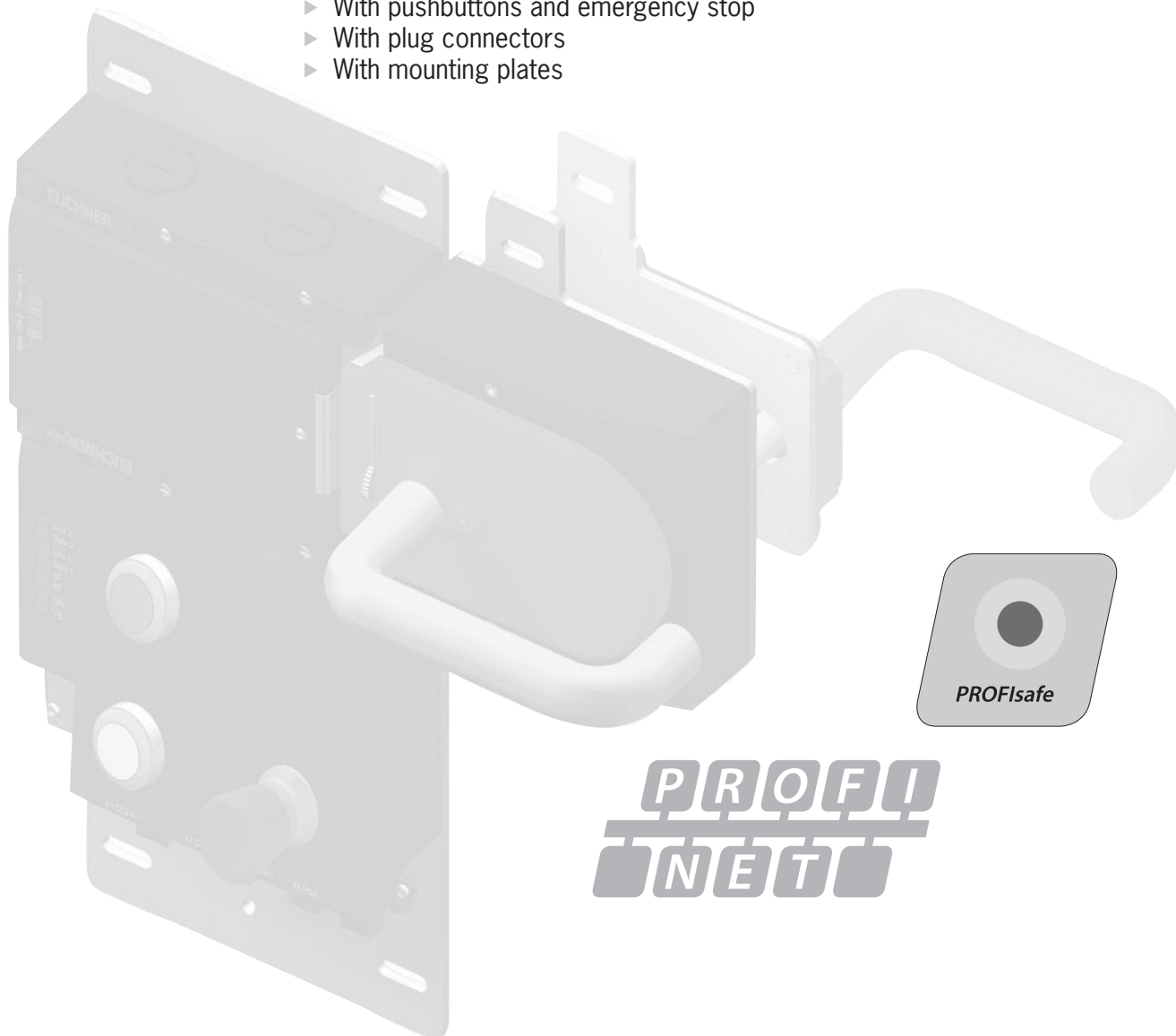
Parameter	Value
Mech. life	
- Pushbutton	1x10 ⁶
- Emergency stop	5x10 ⁴
- Selector switch	3x10 ⁵
- Key-operated switch	3x10 ⁴
Ambient temperature	-20 ... 55 °C
Degree of protection acc. to EN 60529	IP65 (fitted), Key-operated switch IP54

Switching elements, LED

Parameter	Value
Life at 10 mA/24 V DC	
...-GU-...	1x10 ⁶
...-GM-...	5x10 ⁴
Ambient temperature	-20 ... 55 °C
Operating voltage	
- Switching elements	5 ... 35 V
- LED	24 V
Operating current	
- Switching elements	1 ... 100 mA
- LED	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)

Complete sets system family MGB-PN

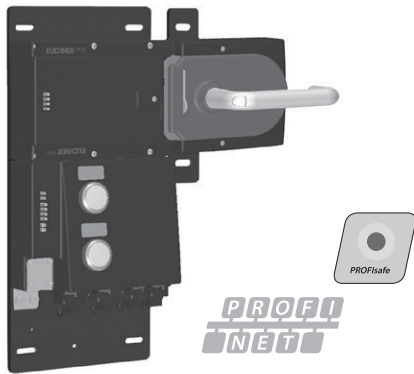
- ▶ Profinet and Profisafe
- ▶ With pushbuttons and emergency stop
- ▶ With plug connectors
- ▶ With mounting plates



MGB-PN

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

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 either as 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.de

Ordering table

Modules in the set				Ordering data, set			
Version/configuration scheme Order no. module combination	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					
 121831 Incl. adhesive labels 			A	106049	-	Right	121832 MGB-L1HB-PNA-R-121832 (Modules pre-assembled on mounting plates)
	*)	*)					
 121833 Incl. adhesive labels							

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

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 can find the GSD file in the download area at www.euchner.de.

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	Push button S90 - S95 1st contact							
Slot 1/byte 1	Push button 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)							

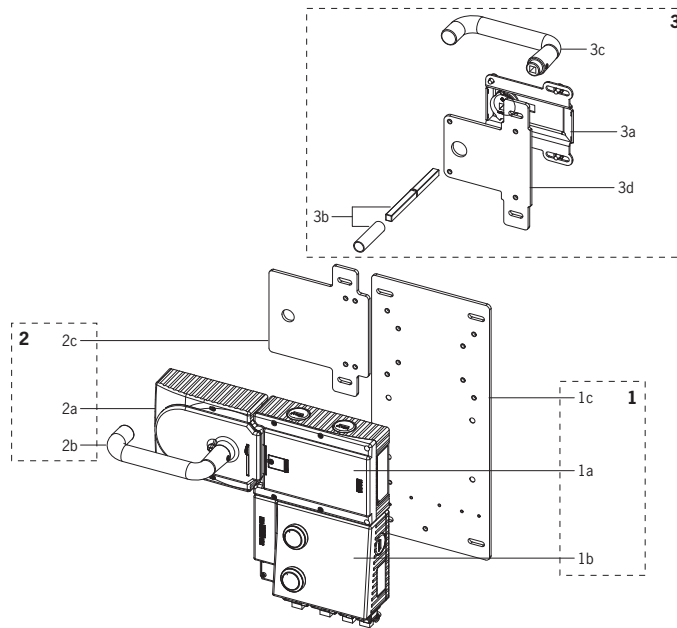
Assignment of PROFIsafe in output area of the bus master

Byte n+0	-	-	-	-	-	-	-	S01
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)							
S01	Guard locking solenoid							

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



System components and spare parts



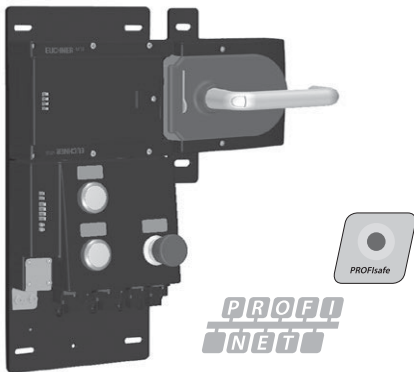
Ordering table for system components, spare parts and accessories

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

Position	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	



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 either as 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.de

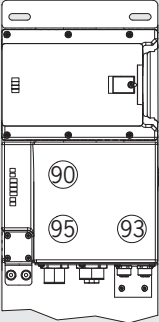



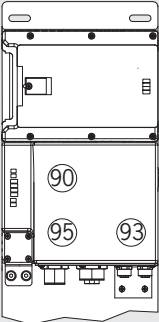
Ordering table

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

Ordering table (continued)

Modules in the set				Ordering data, set				
Version/configuration scheme Order no. module combination	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					
<p>121857</p>  <p>Pre-assembled on mounting plate, incl. adhesive labels, 7/8" plugs and M12 plugs</p>		 <p>*)</p>	 <p>*)</p>	A	106049 Pre-assembled on mounting plate	-	Right	<p>121858 MGB-L1HB-PNA-R-121858</p>
<p>121861</p>  <p>Pre-assembled on mounting plate, incl. adhesive labels, 7/8" plugs and M12 plugs</p>					106221 Pre-assembled on mounting plate		Left	<p>121862 MGB-L1HB-PNA-L-121862</p>

* 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 can find the GSD file in the download area at www.euchner.de.

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)

PROFIsafe data bytes (safe 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	Push button S90 - S95 1st contact							
Slot 1/byte 1	Push button 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	-	-	-	-	-	-	018	017
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							

A

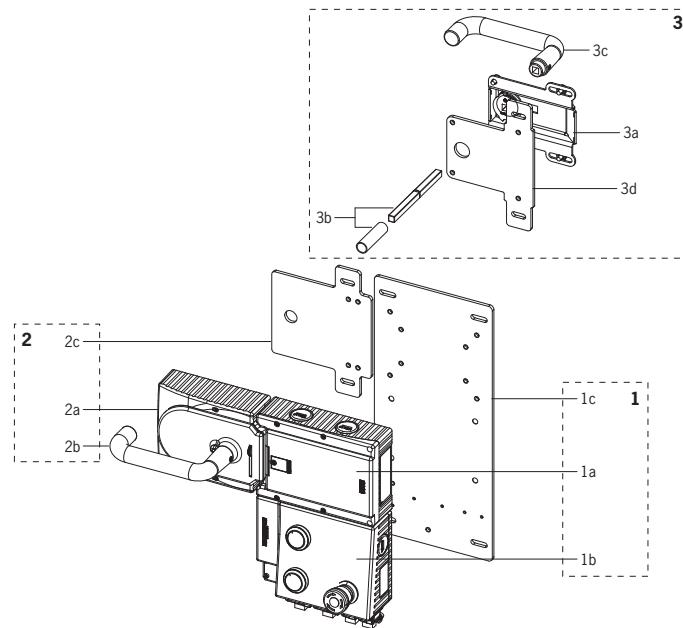
Assignment of PROFIsafe in input area of the bus master

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	-	-	-	-	-	-	-	S01
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)							
S01	Guard locking solenoid							

System components and spare parts



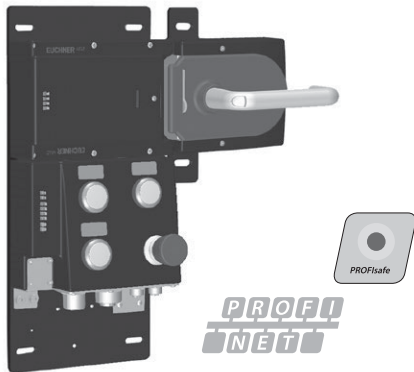
Ordering table for system components, spare parts and accessories

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

Position	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-PNAL-121855	
		For doors hinged on the right	121861 MGB-L1B-PNAL-121861	
	comprising:			
	1a	- Evaluation module	-	
1b	- Bus module	-		
1c	- Mounting plate	-		
2	Handle module MGB-H-... comprising:	For doors hinged on the left	106221 MGB-HAA1A2-L-106221	
		For doors hinged on the right	106049 MGB-HAA1A2-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	

MGB-PN

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 either as 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. 93
- ▶ www.euchner.de

Ordering table

Modules in the set						Ordering data, set			
Version/configuration scheme Order no. module combination	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	S92 H92	S95 H95					
121865 Incl. adhesive labels 					A	111838	-	Right	121866 MGB-L1HB-PNC-R-121866 (Modules pre-assembled on mounting plates)
121867 Incl. adhesive labels 		*)	*)	*)	A	111839	-	Left	121868 MGB-L1HB-PNC-L-121868 (Modules pre-assembled on mounting plates)

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

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 can find the GSD file in the download area at www.euchner.de.

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)



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	Push button S90 - S95 1st contact							
Slot 1/byte 1	Push button 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)



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	-	-	-	-	-	-	-	S01
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)							
S01	Guard locking solenoid							

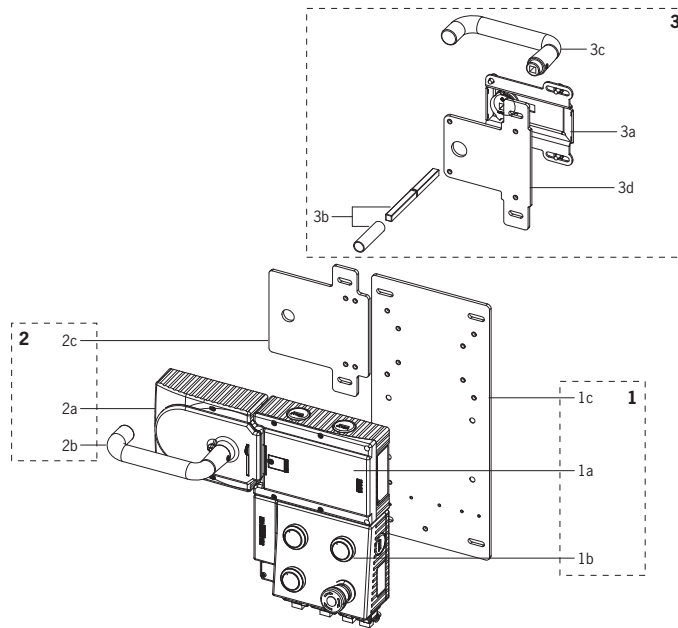
Locking sets MGB-L1...-PN... (guard locking by spring force) with 4 controls or indicators



Cat.
4
PLe



System components and spare parts



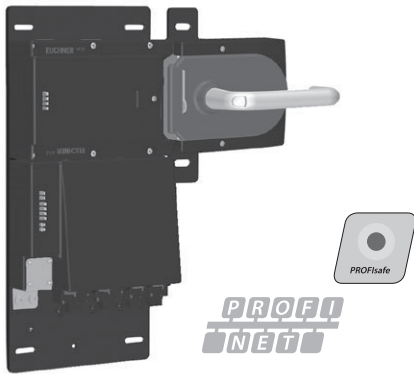
Ordering table for system components, spare parts and accessories

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

Position	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	



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



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 either as 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.de

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

Ordering table

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

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 can find the GSD file in the download area at www.euchner.de.

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)



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)



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	-	-	-	-	-	-	-	S01
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)							
S01	Guard locking solenoid							

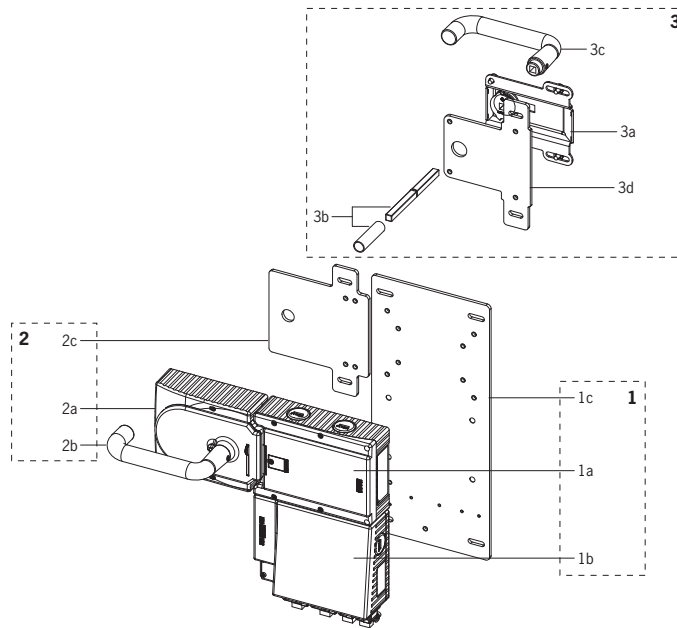
Locking sets MGB-L2...-PN... (guard locking by solenoid force) without controls or indicators



Cat. 4
PLe



System components and spare parts

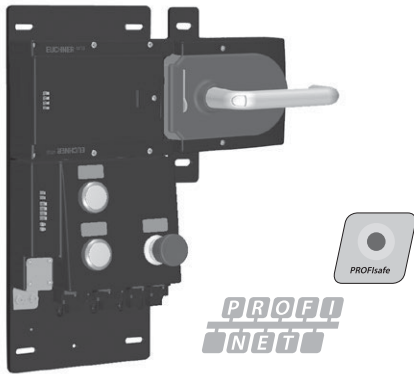


Ordering table for system components, spare parts and accessories

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

Position	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

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



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 either as 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. 105
- ▶ www.euchner.de

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

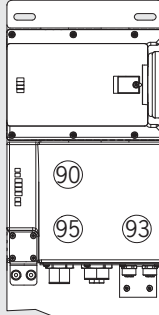



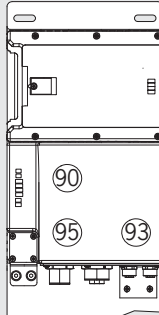
Ordering table

Modules in the set					Ordering data, set			
Version/configuration scheme Order no. module combination	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					
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		*)	*)	A	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)

Ordering table (continued)

Modules in the set				Ordering data, set				
Version/configuration scheme Order no. module combination	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					
<p>121859</p>  <p>Pre-assembled on mounting plate, incl. adhesive labels, 7/8" plugs and M12 plugs</p>		 <p>*)</p>	 <p>*)</p>	A	106049 Pre-assembled on mounting plate	-	Right	<p>121860 MGB-L2HB-PNA-R-121860</p>
<p>121863</p>  <p>Pre-assembled on mounting plate, incl. adhesive labels, 7/8" plugs and M12 plugs</p>								

* 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 can find the GSD file in the download area at www.euchner.de.

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)

PROFIsafe data bytes (safe 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	Push button S90 - S95 1st contact							
Slot 1/byte 1	Push button 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							

A

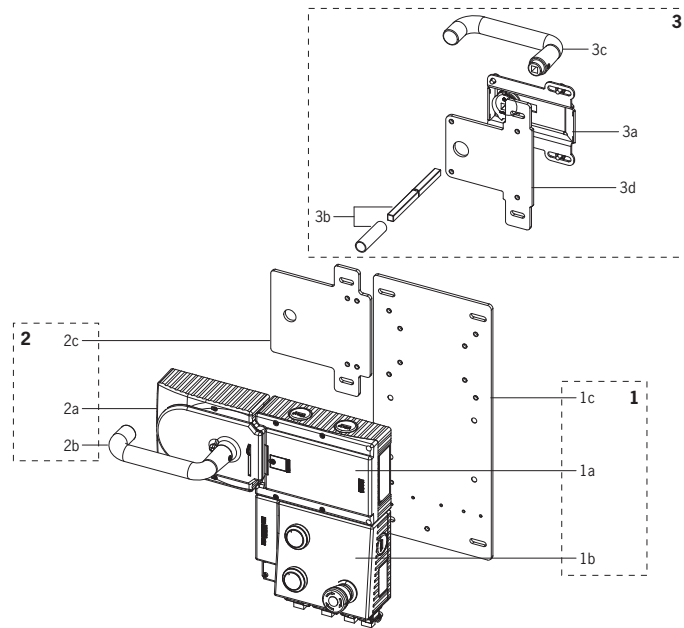
Assignment of PROFIsafe in input area of the bus master

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	-	-	-	-	-	-	-	S01
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)							
S01	Guard locking solenoid							

System components and spare parts



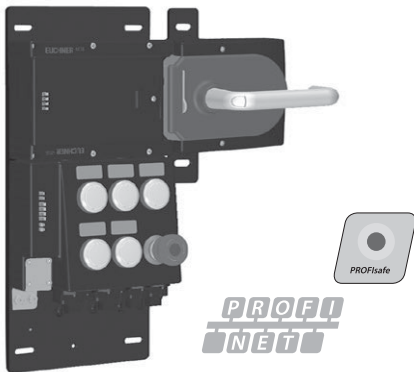
Ordering table for system components, spare parts and accessories

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

Position	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	
		For doors hinged on the right	121863 MGB-L2B-PNA-L-121863	
	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	123926 MGB-A-DOORHANDLE-S2-123926	
	2c	- Mounting plate	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

MGB-PN

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



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 either as 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. 112
- ▶ www.euchner.de

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

Ordering table

Modules in the set							Ordering data, set				
Version/configuration scheme Order no. module combination	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	S91 H91	S92 H92	S94 H94	S95 H94					
121836 Incl. adhesive labels							118838		Right	121837 MGB-L2HB-PNA-R-121837 (Modules pre-assembled on mounting plates)	
PN 121838 Incl. adhesive labels		*)	*)	*)	*)	*)					A

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

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 can find the GSD file in the download area at www.euchner.de.

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)



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	Push button S90 - S95 1st contact							
Slot 1/byte 1	Push button 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)



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	-	-	-	-	-	-	-	S01
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)							
S01	Guard locking solenoid							

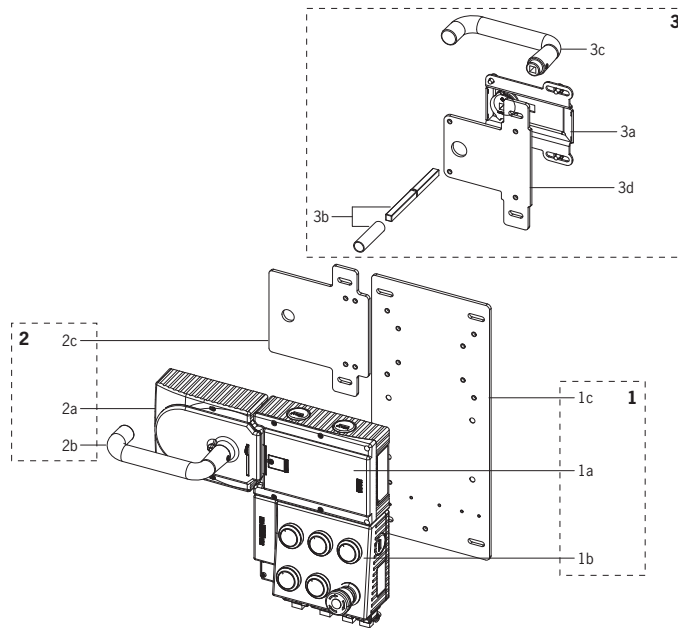
Locking sets MGB-L2...-PN... (guard locking by solenoid force) with 6 controls or indicators



Cat.
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System components and spare parts

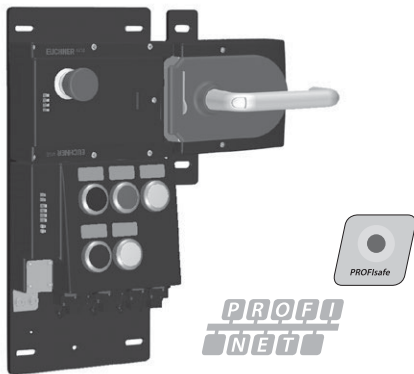


Ordering table for system components, spare parts and accessories

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

Position	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		

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



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 either as 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.de

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

Ordering table

Modules in the set							Ordering data, set				
Version/configuration scheme Order no. module combination	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					
113133 Incl. adhesive labels							106049		Right	113134 MGB-L2HB-PNA-R-113134 (Modules pre-assembled on mounting plates)	
113990 Incl. adhesive labels		gn	rd	ye	wh	bu	106221		Left	113991 MGB-L2HB-PNA-L-113991 (Modules pre-assembled on mounting plates)	

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 can find the GSD file in the download area at www.euchner.de.

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)



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	Push button S90 - S95 1st contact							
Slot 1/byte 2	Push button 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)



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	-	-	-	-	-	-	-	S01
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)							
S01	Guard locking solenoid							

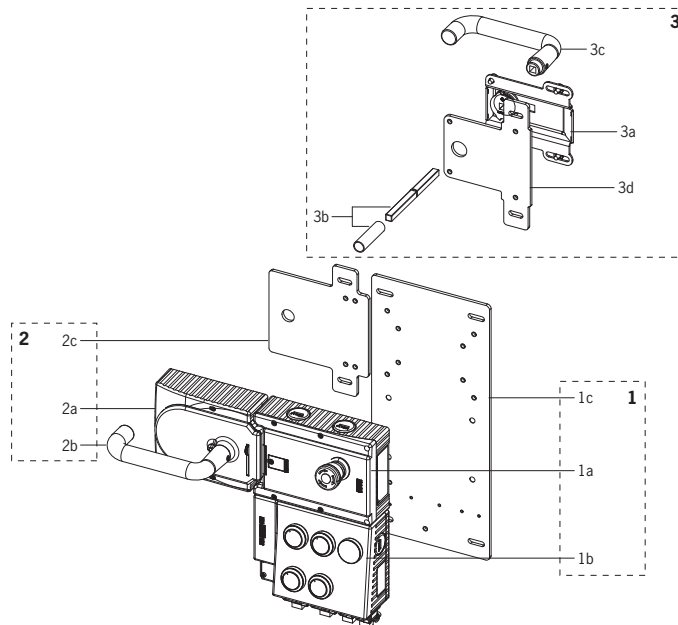
Locking sets MGB-L2...-PN... (guard locking by solenoid force) with 6 controls or indicators



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PLe



System components and spare parts

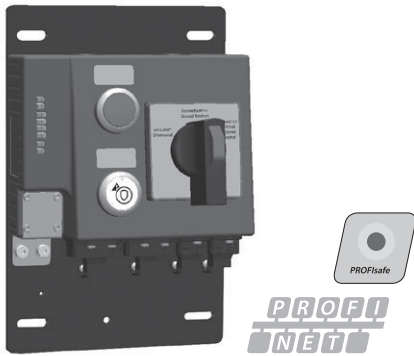


Ordering table for system components, spare parts and accessories

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

Position	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	

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


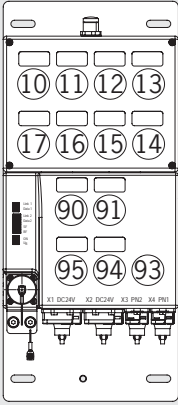













- ▶ Dimension drawings see p. 121
- ▶ Technical data see p. 120
- ▶ Accessories and spare parts see p. 63
- ▶ www.euchner.de

Ordering table

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

(Continued on next page)

Ordering table (continued)

Bus module and/or control module 										Data ranges	Order no./item
Version/configuration scheme	Controls and indicators										
 <p>Pre-assembled on mounting plate, plug connector X14 for enabling switch ZSB077029, socket X6 for stacklight indicator, incl. adhesive labels</p>	S10	S11	S12	S13	S14	S15	S16	S17	B	114744 MGB-CB-PN-114744	
	H10	H11	H12	H13	H14	H15	H16	H17			
	 wh	 wh	 wh	 wh	Form V, 2x60°  1 0 2	Form V, 2x60°  1 0 2	Form V, 2x60°  1 0 2	Form V, 2x60°  1 0 2			
	S93	S90	S91	S94	S95	-	-	-			
	H90	H91	H94	H95	-	-	-				
		 wh	 wh	Form V, 2x60°  1 0 2	Form V, 2x60°  1 0 2	-	-	-			

MGB-PN

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 can find the GSD file in the download area at www.euchner.de.

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	Push button 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	Push button S91 position S91.1 (left)							
SI7	Push button S91 position S91.2 (center)							
SI8	Push button S91 position S91.3 (right)							
SI16	Push button 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	Push button S91 position S91.1 (left)							
SI7	Push button S91 position S91.2 (center)							
SI8	Push button S91 position S91.3 (right)							
SI22	Acknowledgment push button S91 position S91.1 (left)							
SI23	Acknowledgment push button 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							

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	Push button S90 - S91 and S94 - S95 1st contact							
Slot 1/byte 1	Push button S94 - S95 2nd contact							
Slot 2/byte 0	Push button S10 - S17 1st contact							
Slot 2/byte 1	Push button 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	-	-	-	-	-	-	-	S12	S11
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)								
S11	Emergency stop S93								
S12	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

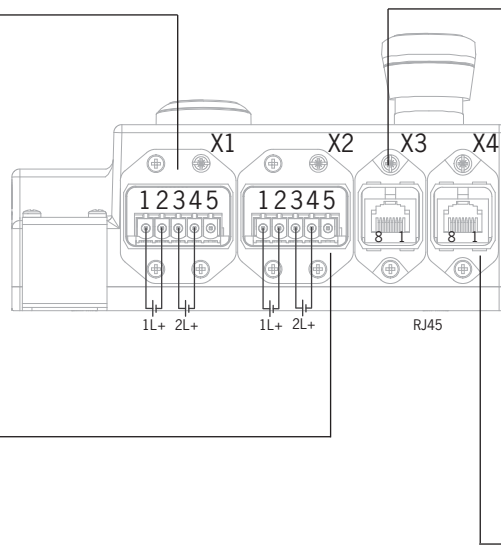
Terminal assignment for version with push-pull plugs

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)

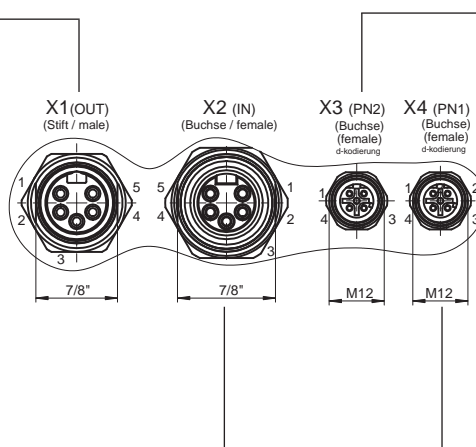
Terminal assignment for version with 7/8" and M12 plugs

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

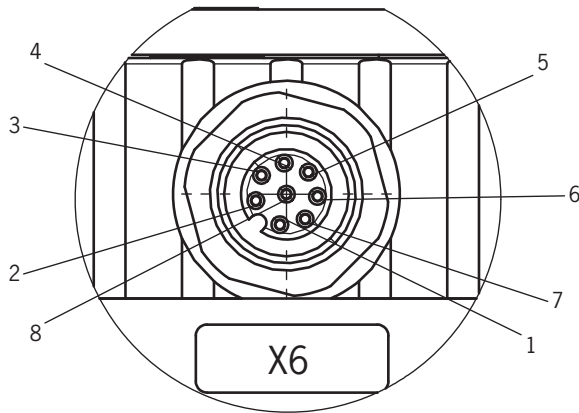
* The auxiliary voltage is not required for the MGB system



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	

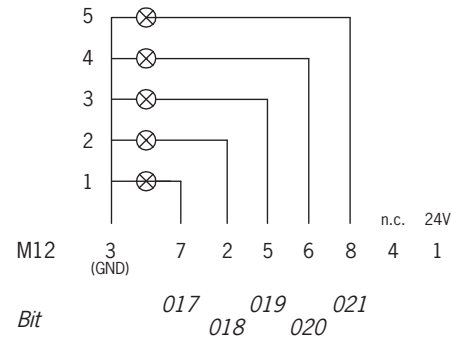
Pin	Description
X4.1	Transmit Data +TD
X4.2	Receive Data +RD
X4.3	Transmit Data -TD_N
X4.4	Receive Data -RD_N
Function earth on plug housing	

Terminal assignment, plug connector X6 for stacklight module

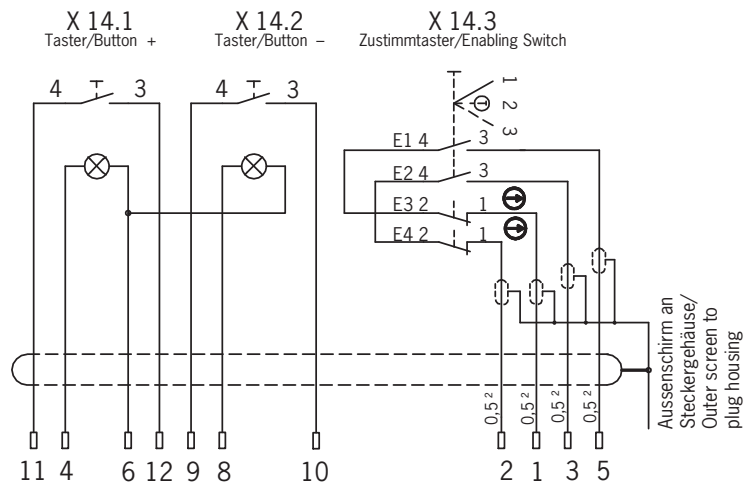


M 12

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_{gr} 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	IP54
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 type, 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	220 ms
- Enabling switch	220 ms
- Operating mode selector switch	220 ms
- Door position	550 ms
- Bolt position	550 ms
- Guard locking	550 ms
Reliability values according 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⁾	$2.54 \times 10^{-8}/h$
PFH _d for the evaluation of the emergency stop	$2.5 \times 10^{-8}/h$
B_{10d} ⁴⁾	
- Emergency stop	1×10^5
- Enabling switch	According to switch information from manufacturer

1) The document *PROFINET Cabling and Interconnection Technology* from the PNO aids in the correct selection of wiring.

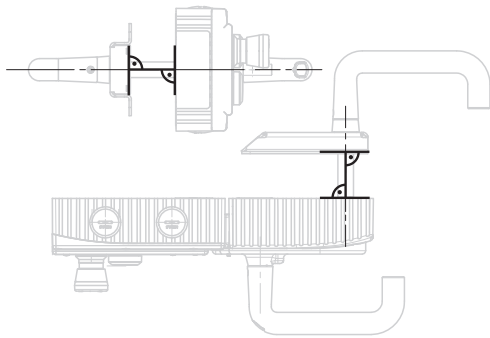
2) The risk time is the max. time between the change in the input status and the deletion of the corresponding bit in the bus protocol.

3) Fixed failure rate without consideration of faults in wearing parts.

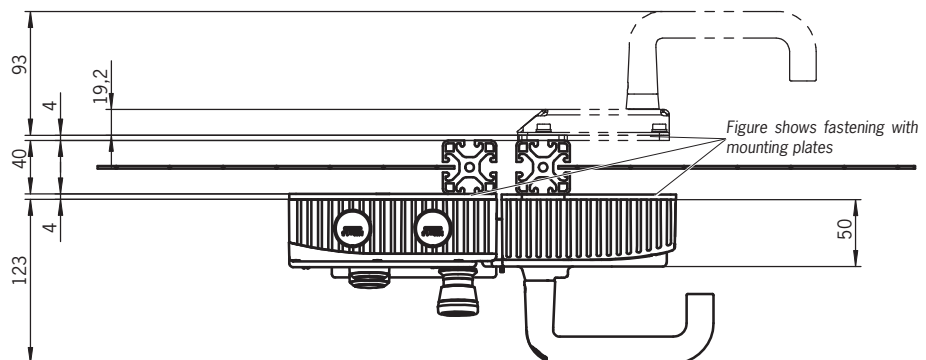
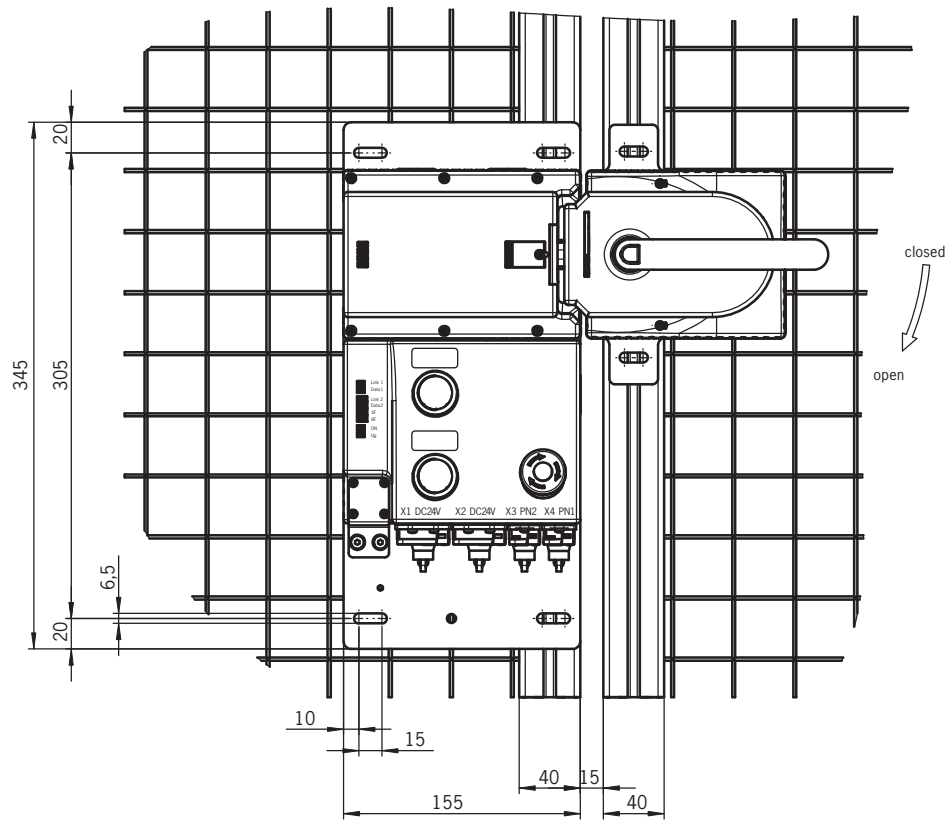
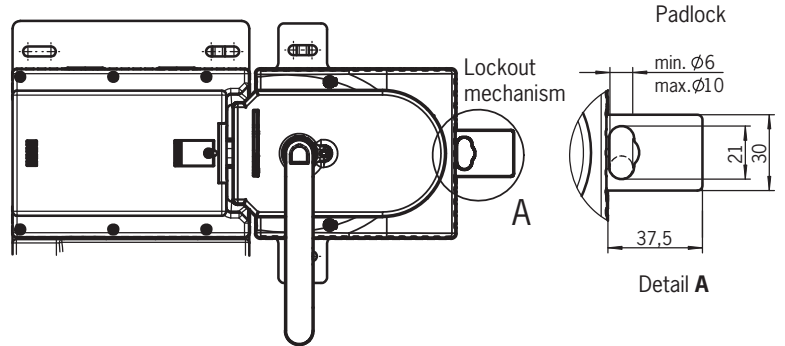
4) Information regarding wearing parts without consideration of fixed failure rates in electronic components.

Dimension drawings

Locking set

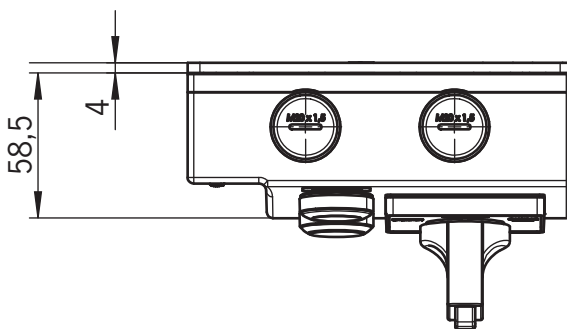
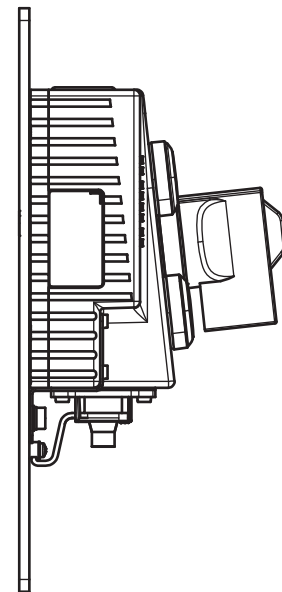
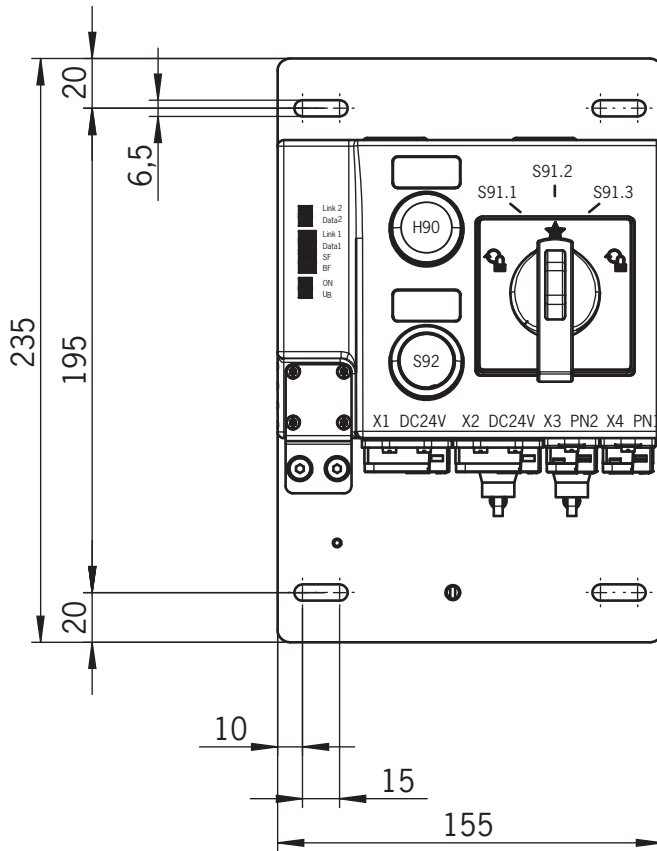
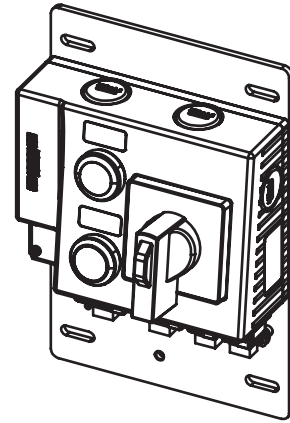


Dimensions with automatically extending lockout mechanism (optional)

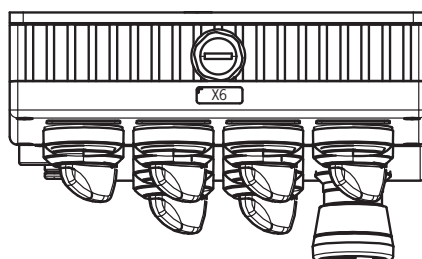
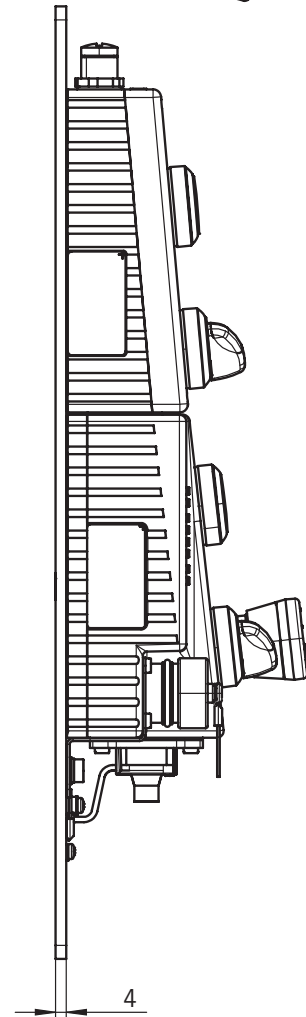
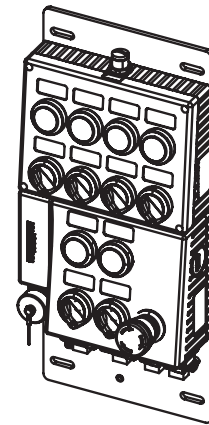
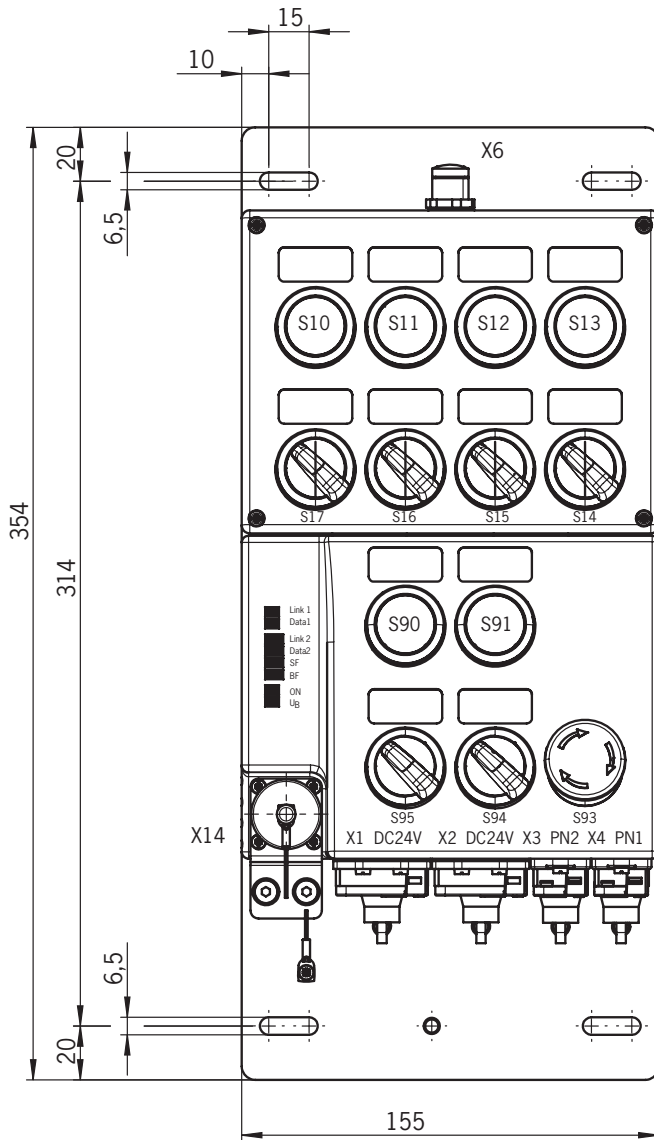


(Figure shows version for doors hinged on the right, pre-assembled on mounting plates)

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)



MGB-PN

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How to find "your" MGB:

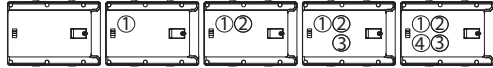
Considerations in relation to the output family

	MGB-AP for separate operation
	MGB-AR for separate operation or series connection with other AR devices
	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)

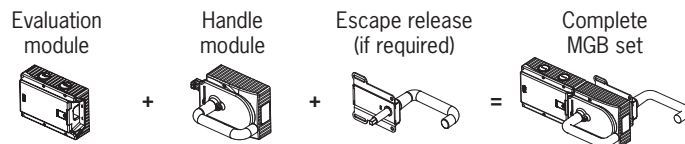
Step 2 Select number of controls/indicators required

Contact assembly/ counting direction	
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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



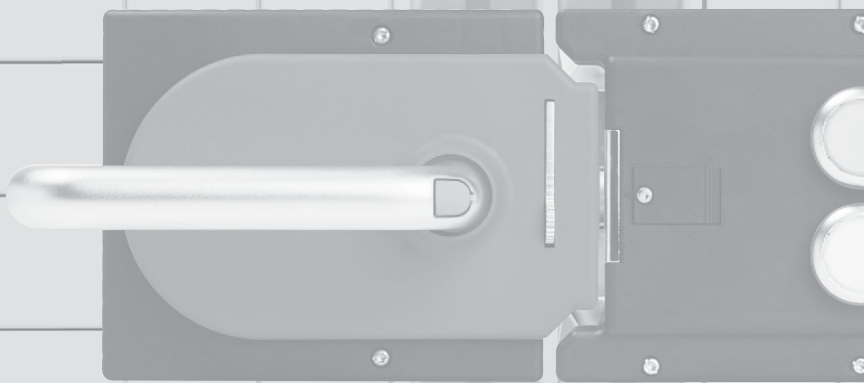
Have you not been able to find the configuration you require?



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

For explanation of symbols, see also Page 8.

EUCHNER



How to find „your“

MGB

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