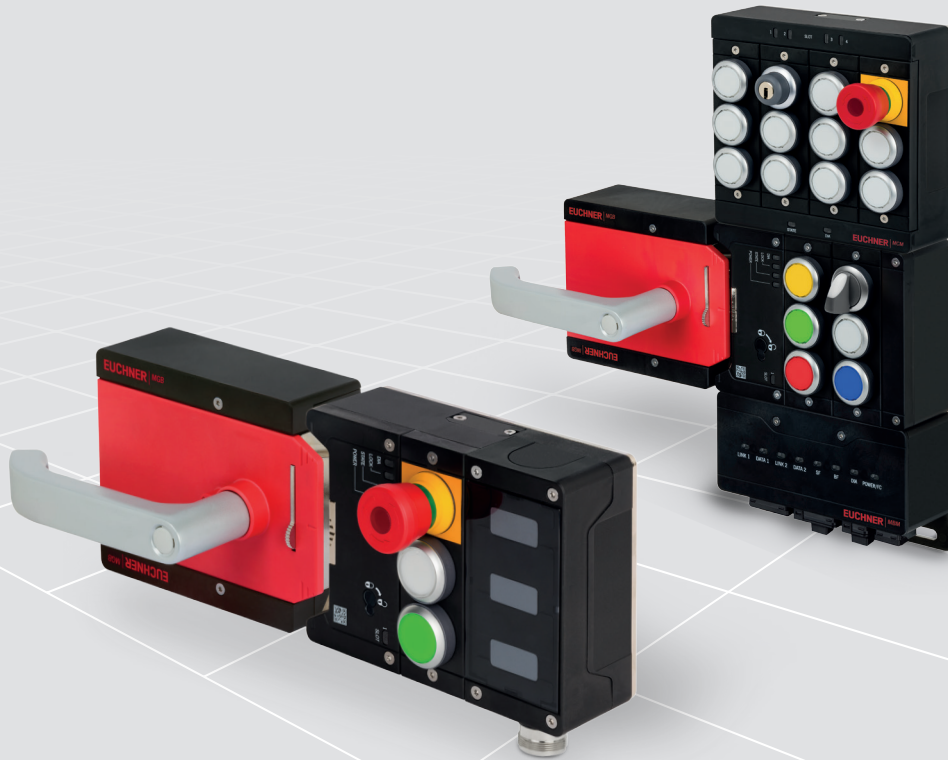


Multifunctional door locking systems MGB2



EUCHNER

More than safety.

EUCHNER

More than safety.



Headquarters in Leinfelden-Echterdingen



Logistics center in Leinfelden-Echterdingen



Production location in Unterböhringen

Internationally successful – the EUCHNER company

EUCHNER GmbH + Co. KG is a world-leading company in the area of industrial safety technology. EUCHNER has been developing and producing high-quality switching systems for mechanical and systems engineering for more than 60 years.

The medium-sized family-operated company based in Leinfelden, Germany, employs around 800 people around the world.

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

Quality and innovation – the EUCHNER products

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

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

We define future safety technology with the highest quality standards and reliable technology. Extraordinary solutions ensure the great satisfaction of our customers.

The product ranges are subdivided as follows:

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

 made
in
Germany

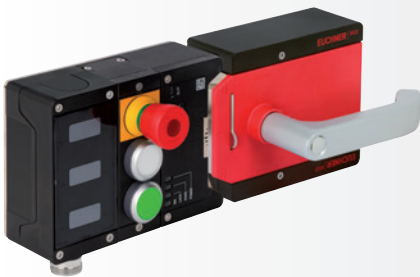


MGB2 Modular

- ▶ MGB2 Modular for connection to bus systems
- ▶ Modular design with submodules and extension modules
- ▶ Easy to extend

For further information, see page 5

MGB2
Modular



MGB2 Classic

- ▶ MGB2 Classic for direct connection to a control system
- ▶ Operation as separate device or in series connection
- ▶ Modular design with submodules
- ▶ Compatible with devices in system families BP and BR

For further information, see page 35

MGB2
Classic

<p>General The logical further development of the MGB – the MGB2 Modular The new modularity – system components at a glance Example for the combination of MGB2 and MBM</p>	<p>6 6 7 9</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">MGB2 Modular</p>
<p>MGB2 <i>Modular</i> individual modules Bus modules MBM Locking modules MGB2-L-... Handle modules MGB2-H-... Escape releases MGB-E-... Extension modules MCM Submodules MSM-1-...</p>	<p>10 12 16 18 20 22 24</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">Modular</p>
<p>MGB2 <i>Modular</i> sets</p>	<p>28</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">Sets Modular</p>
<p>Accessories</p>	<p>60</p>
<p>Index</p>	<p>72</p>

The logical further development of the MGB – the MGB2 Modular

- Modular design with submodules
- Up to six MGB2 Modular on one bus module
- Easy to extend
- Submodule replacement in operation
- For doors hinged on the right as well as on the left
- Integrated alignment aid



MGB2 – the next generation MGB

The new MGB2 represents the logical further development of the globally successful Multifunctional Gate Box MGB. A revised design, new and extended functions, as well as a modular layout offer maximum flexibility and cost-effectiveness. The MGB2 is more than just pure safety door

protection. It makes it possible to integrate into one device all the relevant functions related to the safety door. The MGB2 is suitable for both hinged and sliding doors.

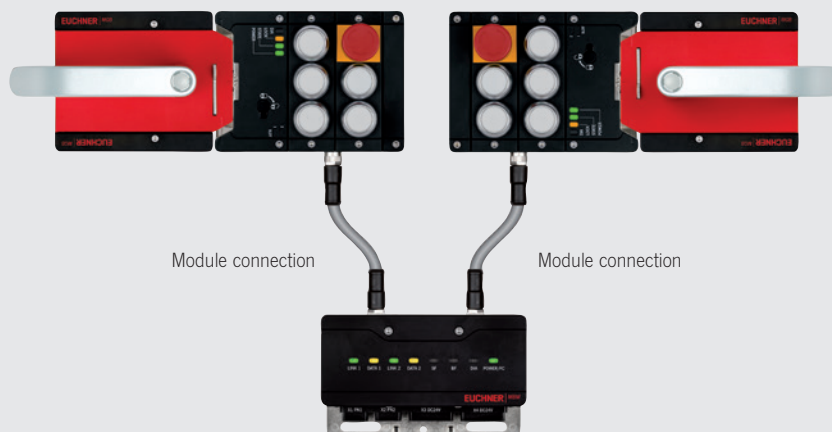
Straightforward connection concept – standard cables suffice

In the *Modular* version, the MGB2 is connected to PROFINET/PROFIsafe via a bus module MBM. This module can either be connected directly to the MGB2 or, if space is tight, it can be mounted remotely. If the bus module is mounted remotely, as many as six MGB2 *Modular* can be connected to one MBM. The connection is made using standard M12 cables. You can identify *Modular* devices with compatible connections based on the letters MLI in the item designation. They have a corresponding M12 mating connector (MLI module plug connector, see example system on p. 15).

Thanks to the modular design, the MGB2 *Modular* can be variably equipped with different functions. The MGB2 *Modular* offers space for two submodules, each with up to three different control elements.

The bus module MBM is available in two different versions; these two versions differ in the connection for PROFINET. An AIDA-compliant solution with RJ45 plug connectors and a solution with D-coded M12 connection are available. A common feature of both is the integrated PROFINET switch.

Several MGB2 Modular on one bus module MBM



Proven technology enriched with innovations

Like its successful predecessor model, the MGB2 is equipped with a very robust, industrial housing and has an integrated metal door stop, as well as an integrated mounting plate. It can be mounted on doors hinged on the left and right, as well as on sliding doors. Changeover is performed during mounting. The locking force of 2,000 N effectively prevents unintentional opening of the guard. The MGB2 *Modular* meets the requirements of all relevant standards, e.g. EN ISO 13849-1 and EN ISO 14119.

All screws are equipped with the same Torx-T10 drive so that a single tool is sufficient. These and many other minor improvements in the housing design ease mounting and the connection of the individual system components.

The new modularity – system components at a glance

Bus module MBM – data collector and gateway

With the bus module MBM, all EUCHNER *Modular* devices can be connected to a fieldbus system. The bus module has a direct connection for one *Modular* device such that one MGB2 *Modular* or one MCM *Modular* can be connected directly to a bus module (direct plug). If mounted remotely, as an alternative several *Modular* devices can be connected using M12 cables (cable connected). The *Modular* connection technology makes it possible to operate, e.g., up to 6 base units on one bus module MBM. Different plug connector variants are available for connection to fieldbus systems. A switch is integrated into Ethernet-based systems such that series wiring both of the bus system and the power supply is possible.

Bus module MBM



Locking module MGB2 Modular – guard locking for personnel and process protection

The MGB2 *Modular* locking module is available in different versions for process protection guard locking or personnel protection guard locking. It can be mounted on doors hinged on the left or right, and on sliding doors. Together with a handle module, safety doors can be used as movable guards with an interlocking device, with or without guard locking according to EN ISO 14119.

There is space for up to two submodules MSM. In this way a very wide range of control elements from emergency stops, through pushbuttons, to key-operated rotary switches can be added such that a complete control terminal can be created on the door. And if that is not enough, there is the extension module MCM.

The MGB2 locking module is connected to an MBM bus module using an M12 connection. This module collects all data and communicates with the control system via a fieldbus.

Locking module MGB2 Modular



Extension module MCM Modular – even more space for functions

The extension module MCM can extend the functionality of the MGB2 considerably. If the maximum possible six control elements in the locking module MGB2 are not enough or labeling is required, four further submodules MSM can be inserted into an extension module MCM. The extension module MCM *Modular* can be connected either directly to a bus module MBM or an MGB2 *Modular*. A 5-core M12 connecting cable is also sufficient here. Alternatively, the extension module MCM *Modular* can be docked directly to the MGB2 *Modular* as well as to the bus module MBM. To be able to connect the MCM *Modular* to an MGB2 *Modular*, an additional plug is required for the module connection (see accessories section).

Extension module MCM Modular



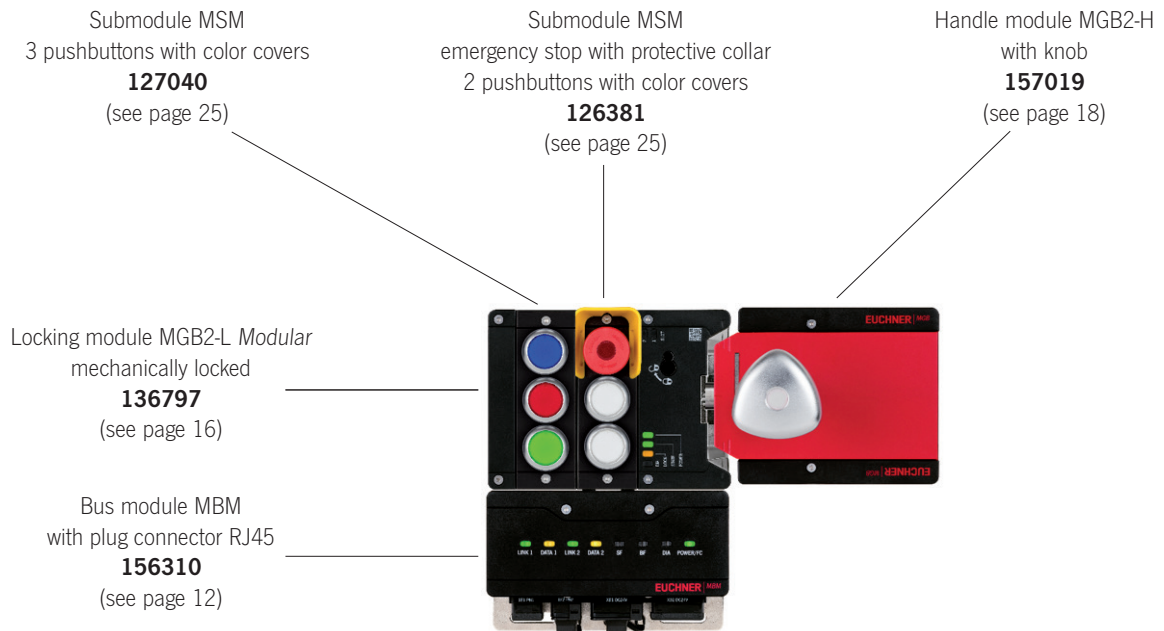
Submodules MSM – a new concept for maximum variety

A large selection of different submodules MSM make the MGB2 into a small control system. Different submodules are available to adapt the MGB2 or the MCM optimally to the control functions necessary for a machine or installation, whether for labeling or with pushbuttons, an emergency stop or a connection for an enabling switch.

Different submodules



Example for the combination of MGB2 and MBM



MGB2

Modular

»Maximum flexibility – put together your specific MGB2 *Modular*.«

- ▶ Modular design with submodules
- ▶ Up to six MGB2 *Modular* on one bus module
- ▶ Easy to extend
- ▶ Submodule replacement in operation
- ▶ For doors hinged on the right as well as on the left
- ▶ Integrated alignment aid
- ▶ Compatible with all *Modular* devices

MGB2

Modular

Bus module



MBM



Locking module



MGB2-L

Handle module



MGB2-H

Escape release



MGB-E

Extension module



MCM

Submodules



MSM

Bus modules MBM



- ▶ **Interface to PROFINET/PROFIsafe**
- ▶ **Integrated switch**
- ▶ **Compatible with all Modular devices**

Details

PROFINET interface

The bus module MBM is available with one of the following PROFINET connections:

- ▶ Plug connector M12 D-coded (7/8" plug and M12 plug, D-coded) according to IEC 61076-2-101)
- ▶ Plug connector RJ45, AIDA-compliant (push-pull plug according to IEC 61076-3-117, variant 14)

PROFINET switch

Linear topology network structure due to integrated switch (supports MRP).



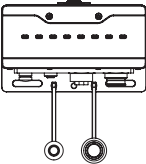


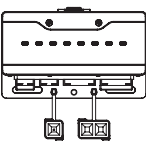
MLI connections (module plug connector)

An MGB2 *Modular* or an MCM *Modular* can be connected directly to a bus module (direct plug). Alternatively, the modules can be connected using commercially available connecting cables M12, 5-core (cable connect).

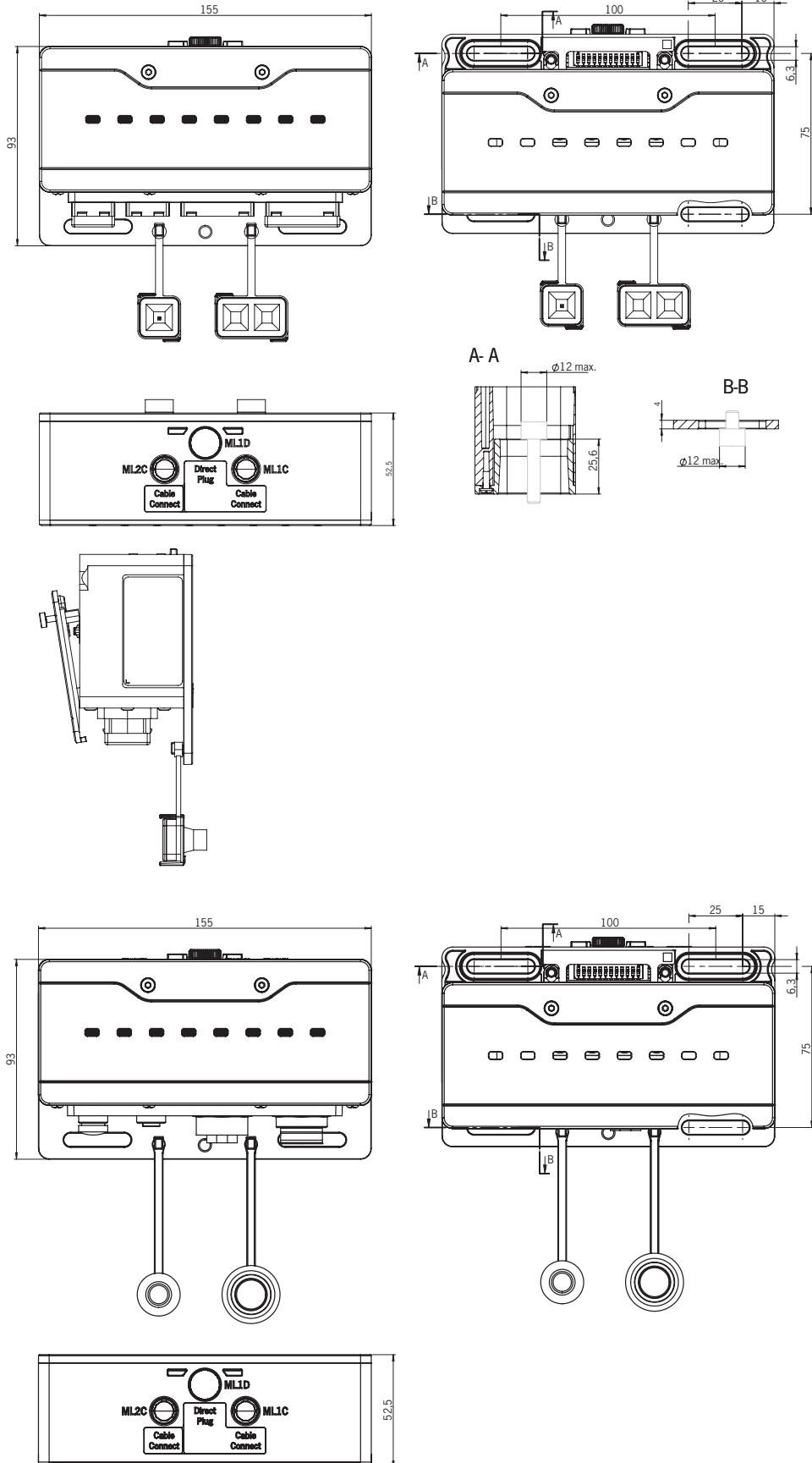
Further information

- ▶ Dimension drawings see p. 13
- ▶ Accessories and spare parts see p. 60
- ▶ For detailed information, enter the order number for the product in the search box at www.euchner.com.

Ordering table


Version		MLI connections	Order no./item
 		2 x MLI cable connect or 1 x MLI direct plug	<p style="text-align: center;">156312</p> MBM-PN-S4-MLI-3B-156312
 		2 x MLI cable connect or 1 x MLI direct plug	<p style="text-align: center;">156310</p> MBM-PN-S3-MLI-3B-156310

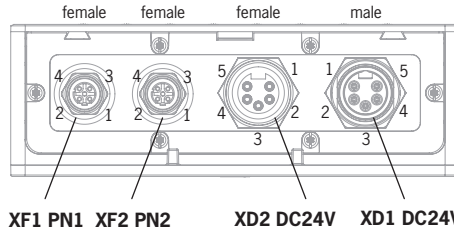
Dimension drawing



Terminal assignment

Version with 7/8" and M12 plugs, D-coded

Pin	Designation	Connections	Pin	Designation
XF1.1	Transmit Data +TD		XD1.1	N2 auxiliary voltage *0 V
XF1.2	Receive Data +RD		XD1.2	N1 operating voltage 0 V
XF1.3	Transmit Data -TD_N		XD1.3	Function earth
XF1.4	Receive Data -RD_N		XD1.4	L1 operating voltage DC 24 V
			XD1.5	L2 auxiliary voltage* DC 24 V




Pin	Designation
XF2.1	Transmit Data +TD
XF2.2	Receive Data +RD
XF2.3	Transmit Data -TD_N
XF2.4	Receive Data -RD_N

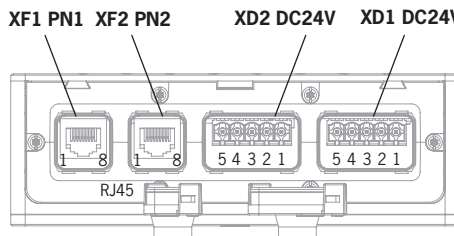
* The auxiliary voltage is not required for the MGB2 system

Pin	Designation
XD2.1	N2 auxiliary voltage *0 V
XD2.2	N1 operating voltage 0 V
XD2.3	Function earth
XD2.4	L1 operating voltage DC 24 V
XD2.5	L2 auxiliary voltage* DC 24 V

* The auxiliary voltage is not required for the MGB2 system

Version with push-pull plugs

Pin	Designation	Connections	Pin	Designation
XF1.1	Receive Data RD+		XD1.1	L1 operating voltage DC 24 V
XF1.2	Receive Data RD		XD1.2	N1 operating voltage 0 V
XF1.3	Transmit Data TD+		XD1.3	L2 auxiliary voltage* DC 24 V
XF1.4	n.c.		XD1.4	N2 auxiliary voltage* 0 V
XF1.5	n.c.		XD1.5	Function earth
XF1.6	Transmit Data TD			
XF1.7	n.c.			
XF1.8	n.c.			



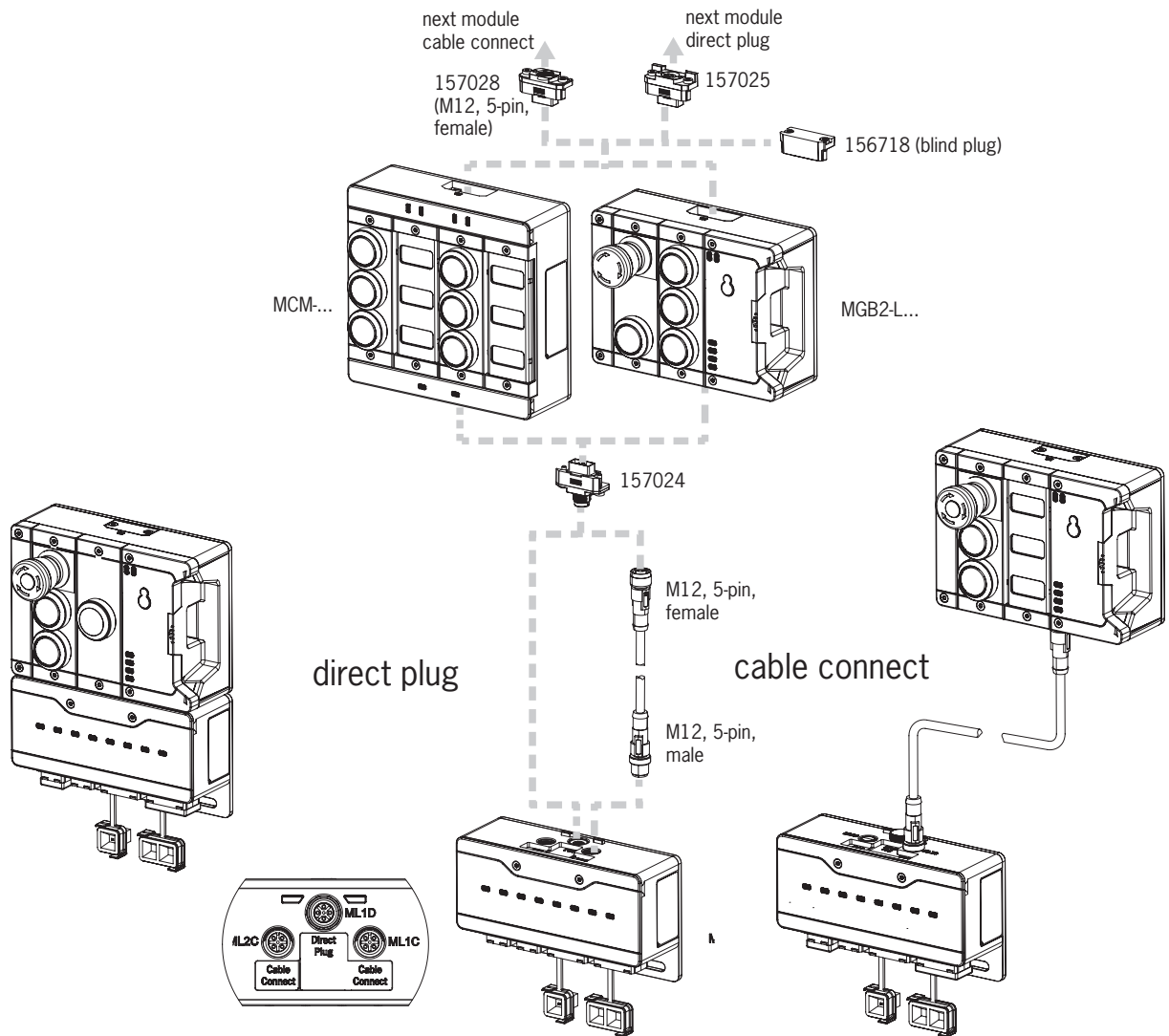
Pin	Designation
XF2.1	Receive Data RD+
XF2.2	Receive Data RD
XF2.3	Transmit Data TD+
XF2.4	n.c.
XF2.5	n.c.
XF2.6	Transmit Data TD
XF2.7	n.c.
XF2.8	n.c.

* The auxiliary voltage is not required for the MGB2 system

Pin	Designation
XD2.1	L1 operating voltage DC 24 V
XD2.2	N1 operating voltage 0 V
XD2.3	L2 auxiliary voltage* DC 24 V
XD2.4	N2 auxiliary voltage* 0 V
XD2.5	Function earth

* The auxiliary voltage is not required for the MGB2 system

Example for the combination of MGB2 Modular and MBM



Locking modules MGB2-L-...



- ▶ Guard locking for protection of persons or processes
- ▶ Two slots for submodules
- ▶ Door stop can be changed to right/left
- ▶ Category 4/PL e for the evaluation of all safety functions
- ▶ Compatible with all Modular devices

Details

Guard locking types

L1 Closed-circuit current principle

Guard locking by spring force. Release by applying voltage to the guard locking solenoid.

L2 Open-circuit current principle

Guard locking by solenoid force. Activation of the guard locking by applying voltage to the guard locking solenoid.

Door stop

On the locking modules, the door stop can be changed from right to left and vice versa at any time with little effort.

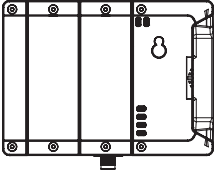




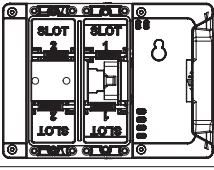
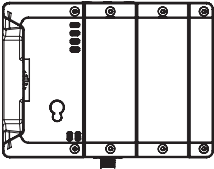


Further information

- ▶ Dimension drawings see p. 17
- ▶ Accessories and spare parts see p. 60
- ▶ For detailed information, enter the order number for the product in the search box at www.euchner.com.

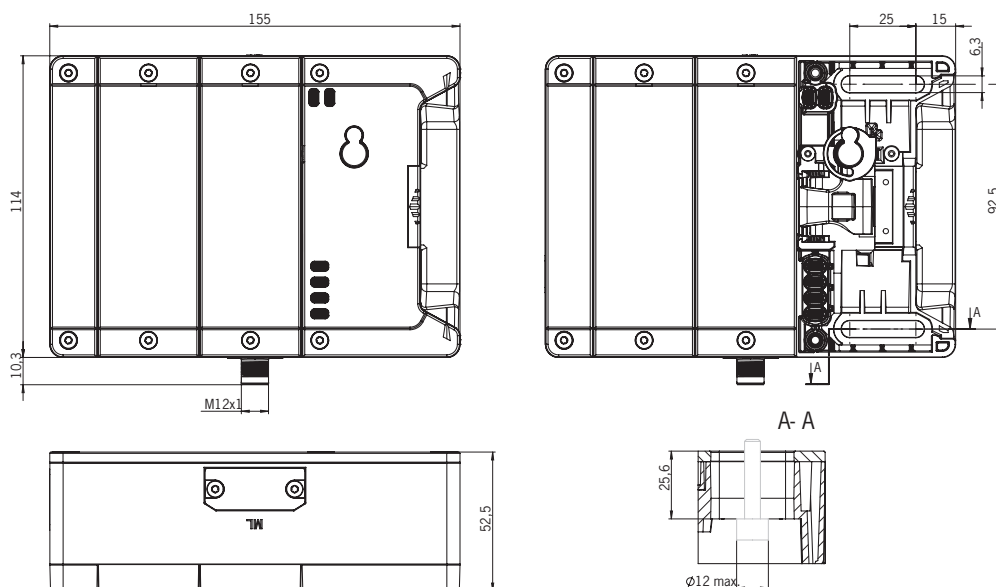
Ordering table

Version	Submodules		Plug connector	Door stop (factory setting)	Order no./item
	Slot 1	Slot 2			
MGB2-L1 Closed-circuit current principle					
			1 x MLI 157024 1 x blanking cover 156718	Right	136797 MGB2-L1-MLU-YA4A4-BAR-136797
	126372	126372			
			1 x MLI 157024 1 x blanking cover 156718	Right	156374 MGB2-L1-MLU-YB1A1-DAR-156374
	137610	136687			
	-	-	-	-	136776 MGB2-L1-MLU-Y0000-BJ-136776
			1 x MLI 157024 1 x blanking cover 156718	Left	156377 MGB2-L1-MLU-YB1A1-DA-L-156377
	137610	136687			

MGB2-L

Version	Submodules		Plug connector	Door stop (factory setting)	Order no./item
	Slot 1	Slot 2			
MGB2-L2 Open-circuit current principle					
	 126372	 126372	1 x MLI 157024 1 x blanking cover 156718	Right	156835 MGB2-L2-MLI-U-YA4A4-BA-R-156835
	 137610	 136687	1 x MLI 157024 1 x blanking cover 156718	Right	156379 MGB2-L2-MLI-U-YB1A1-DA-R-156379
	-	-	-	-	156392 MGB2-L2-MLI-U-Y0000-BJ-156392
	 137610	 136687	1 x MLI 157024 1 x blanking cover 156718	Left	156381 MGB2-L2-MLI-U-YB1A1-DA-L-156381

Dimension drawing



Handle modules MGB2-H-...



- ▶ Bolt tongue with transponder
- ▶ Fold-out lockout mechanism
- ▶ Second automatically extending lockout mechanism (optional)
- ▶ Silver-colored door handle or door knob

Details

Bolt tongue

The bolt tongue is reliably detected by a transponder as soon as it is inserted into 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 using the fold-out lockout mechanism. In this way the operation of the handle is prevented in the locked state.

Additionally, the optional lockout mechanism that extends automatically on the actuation of the handle can be used for 3 more padlocks.

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 or retrofitted with a door knob.

Lockable from the inside

Handle modules with this function can be returned to the closed position from inside the installation using an escape release.

Important: The actuating direction is not adjustable.

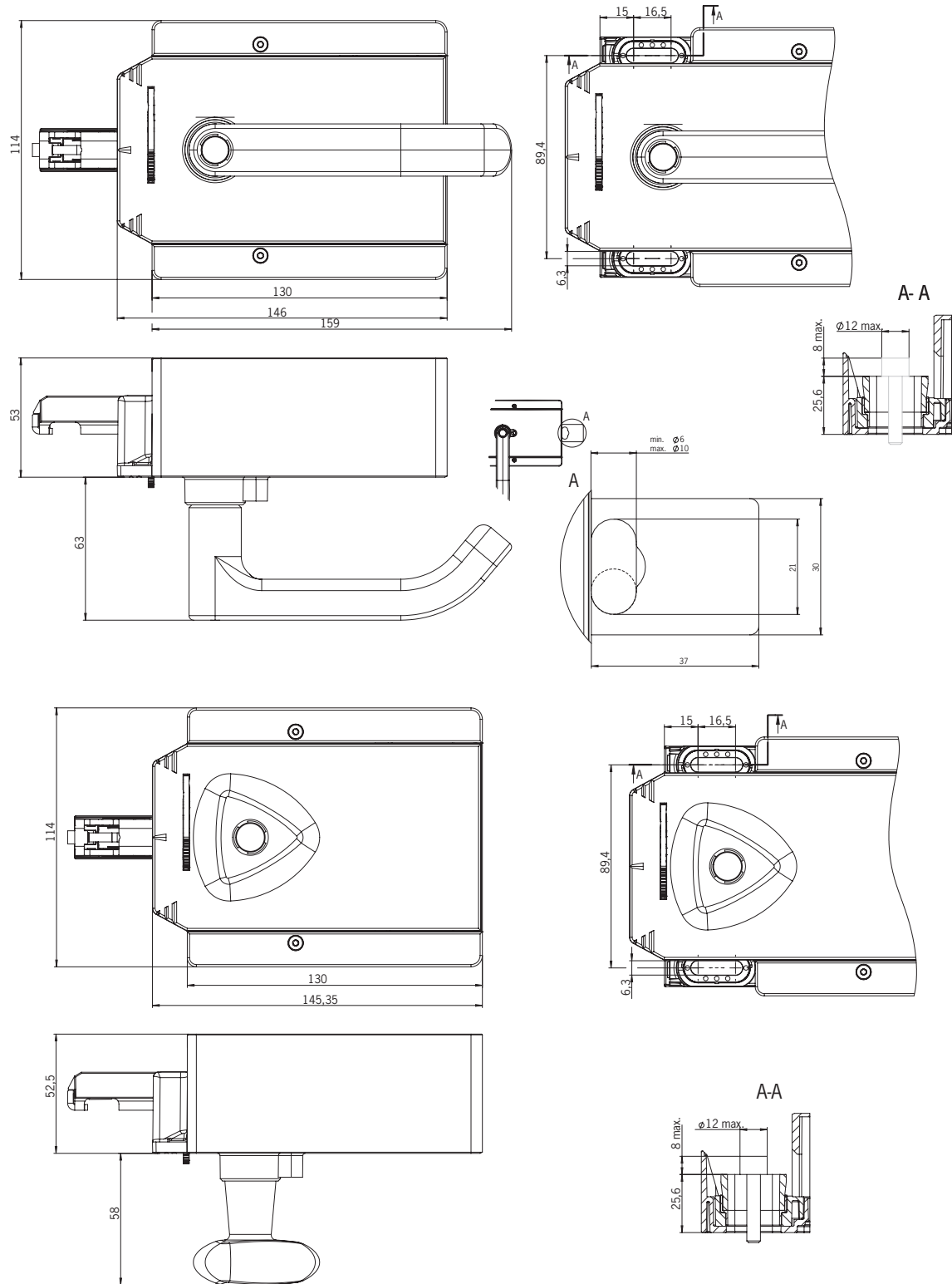
Further information

- ▶ Dimension drawings see p. 19
- ▶ Accessories and spare parts see p. 60
- ▶ For detailed information, enter the order number for the product in the search box at www.euchner.com.

Ordering table

Version	Door handle	Door knob	Lockable from the inside	Automatically extending lockout mechanism	Fold-out lockout mechanism	Door stop (factory setting)	Order no./item
	●				●	Right	137617 MGB2-H-BA1A1-R-137617
	●				●	Left	156396 MGB2-H-BA1A1-L-156396
	●			●	●	Right	136691 MGB2-H-BA1A3-R-136691
	●			●	●	Left	156394 MGB2-H-BA1A3-L-156394
		●		●	●	Right	157019 MGB2-H-BA1A5-R-157019
		●		●	●	Left	157020 MGB2-H-BA1A5-L-157020
	●		●	●	●	Right	157021 MGB2-H-BA1A8-R-157021
	●		●	●	●	Left	157022 MGB2-H-BA1A8-L-157022

Dimension drawing



Escape releases MGB-E-...



- ▶ Red door handle or door knob
- ▶ Extended actuation axis for thicker doors (available optionally)

Details

Escape release

The safety system MGB2 can be equipped with an escape release module. The escape release enables people shut in to open the locked door from the danger zone. It is only necessary to actuate the door handle. The actuating direction automatically adapts to the actuating direction of the handle module and does not need to be changed. The actuation axis supplied is suitable for profiles up to 40 mm.

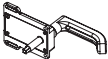

Extended actuation axis

Optionally, a 250 mm (instead of 107 mm) long actuation axis 106761 can be ordered for thicker doors or profiles > 40 mm. The axis can be shortened to the required dimension.

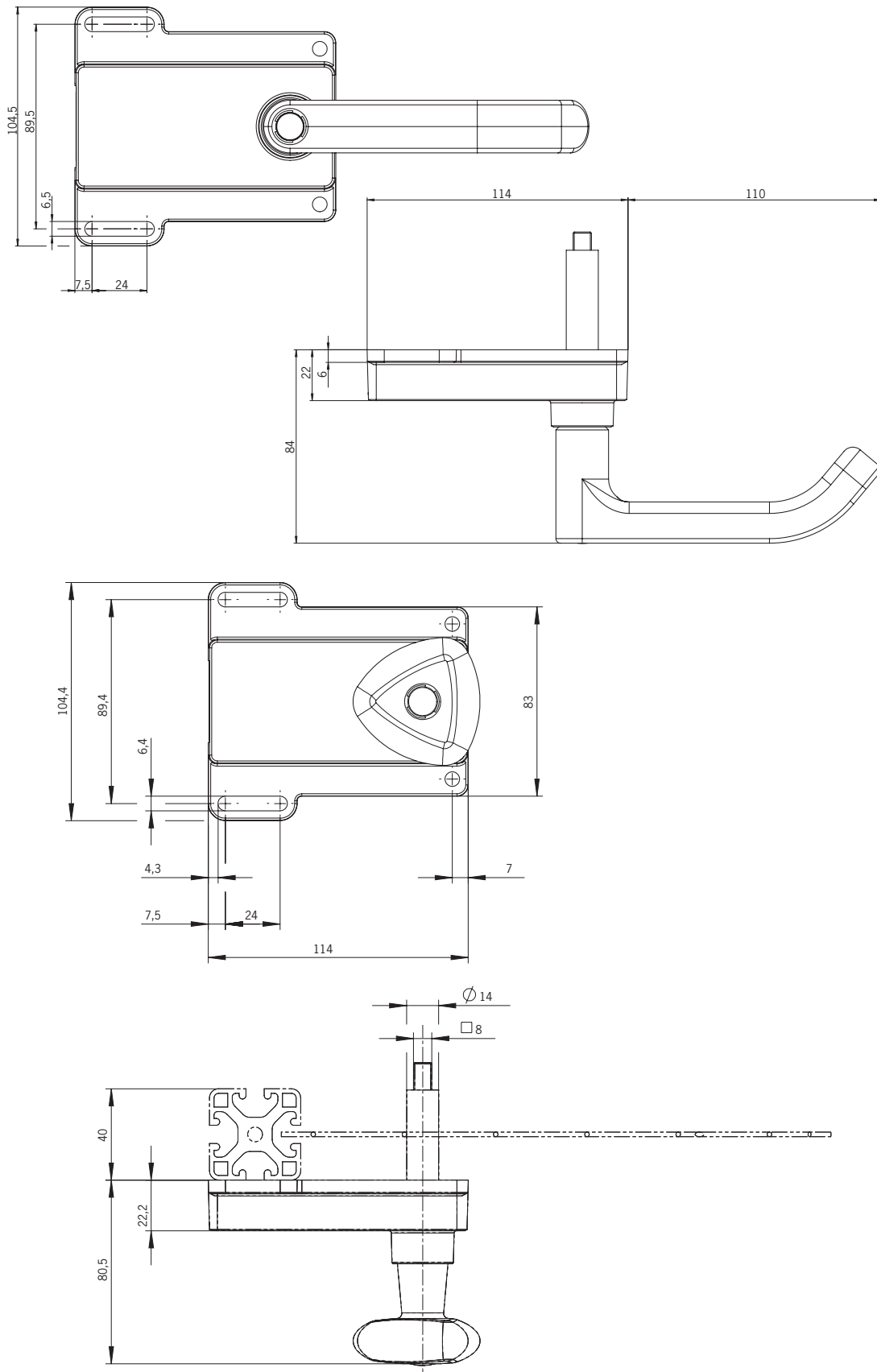
Further information

- ▶ Dimension drawings see p. 21
- ▶ Accessories and spare parts see p. 60
- ▶ For detailed information, enter the order number for the product in the search box at www.euchner.com.

Ordering table

Version	Door handle	Door knob	Order no./item
	●		100465 MGB-E-A-100465
		●	117126 MGB-E-A7-117126

Dimension drawing



Extension modules MCM



- ▶ Four slots for mounting submodules
- ▶ Category 4/PL e for the evaluation of all safety functions
- ▶ Compatible with all Modular devices

Details

Function

The MCM Modular can be connected directly or remotely to the bus module and in this way can be operated as a control terminal. It can also be used to extend the control features on a locking module. The MCM Modular offers four slots for mounting submodules.

Expandable via connection on the top

Either a module plug connector or a plug for the direct connection of a signal light with up to four lamps can be used on the top of the MCM.

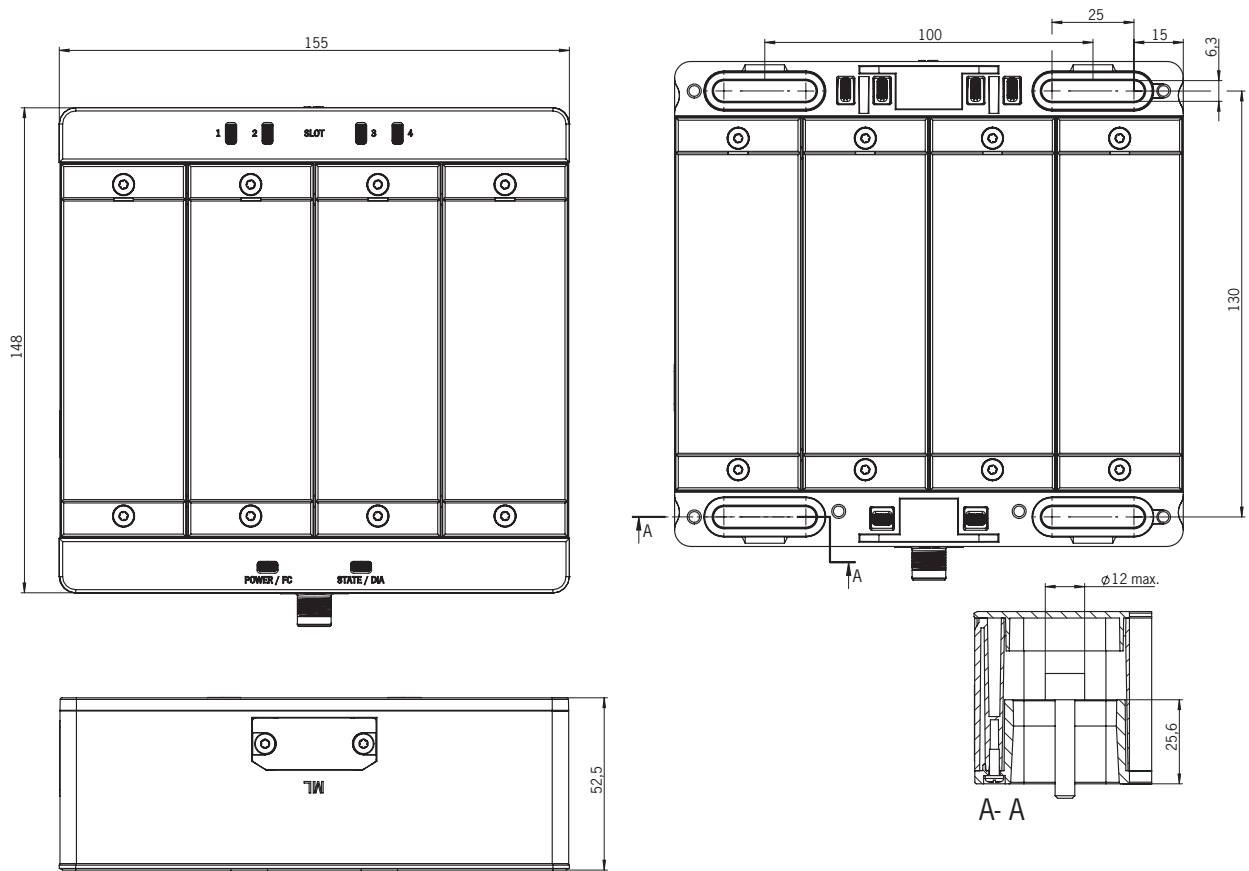
Further information

- ▶ Dimension drawings see p. 23
- ▶ Accessories and spare parts see p. 60
- ▶ For detailed information, enter the order number for the product in the search box at www.euchner.com.

Ordering table

Version	Submodules				Plug connector	Order no./item
	Slot 1	Slot 2	Slot 3	Slot 4		
	 126372	 126372	 126372	 126372	1 x MLI 157024 1 x blinking cover 156718	<p style="text-align: center;">157774</p> MCM-MLI-YA4A4A4A4-JA-157774
	-	-	-	-	-	<p style="text-align: center;">157854</p> MCM-MLI-Y00000000-JJ-157854

Dimension drawing



Submodules MSM-1-...



- ▶ Controls and indicators for installation in locking and extension modules
- ▶ Installation rotated by 180° possible
- ▶ Incl. lens set for pushbuttons

Details

Lens set

The color of the pushbuttons can be selected using the lens set 120344 included (5 colors).

Illuminated emergency stop

Emergency stop with illumination that can be controlled as required.

Emergency stop with protective collar

A protective collar protects the emergency stop against unintentional operation.

Labeling fields

Submodules with labeling fields 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 L**, 90° angle of rotation with 2 positions. The key latches in both positions and can be removed in both positions. Devices with key-operated switch form L have degree of protection IP 54.

▶ **Form V**, 40° angle of rotation with 2 positions. The key latches in position 0 and can be removed in position 0.

Connection for enabling switch

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

Further information










































- ▶ Dimension drawings see p. 26
- ▶ Accessories and spare parts see p. 60
- ▶ For detailed information, enter the order number for the product in the search box at www.euchner.com.

Ordering table

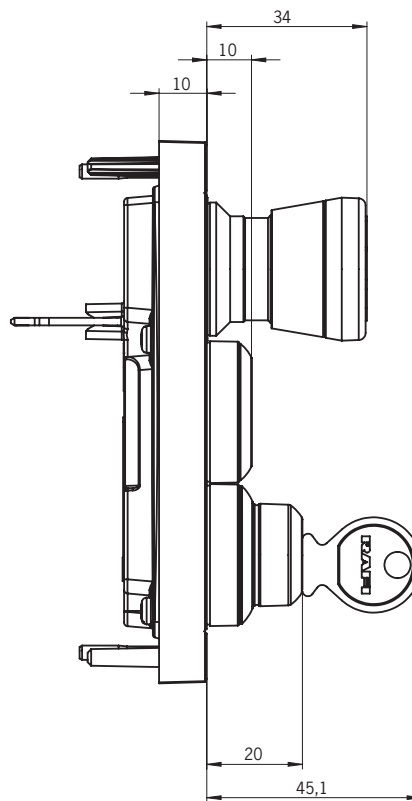
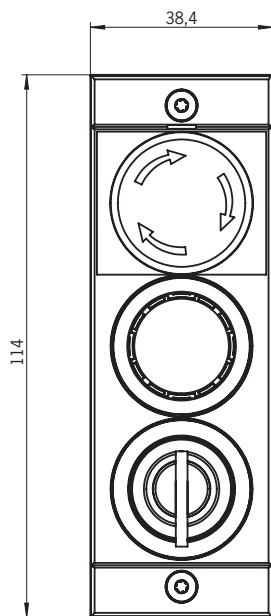
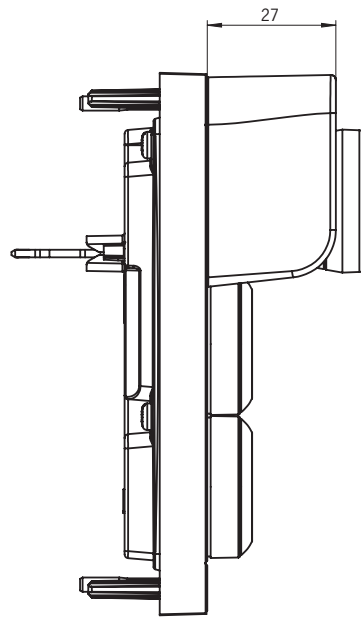
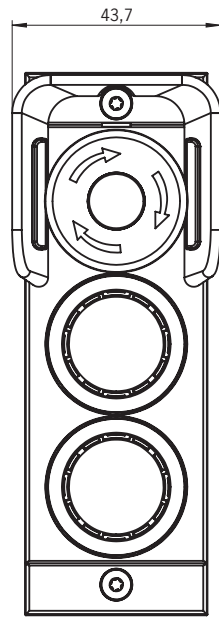
For use with:

MGB2 Modular MGB2 Classic MCM	MGB2 Modular MGB2 Classic MCM	MGB2 Modular MCM	MGB2 Classic
N	P	R	K

	Version			Conne- ction type	Description	Order no./item
	Controls/indicators					
	Top	Middle	Bottom			
	-	-	-	N	Blanking cover for submodule slot	126372 MSM-1-N-AA-000-A4-126372
				N	Blanking cover for submodule slot with 3 labeling fields	137610 MSM-1-N-AA-QQQ-B1-137610
		-	-	P	1 illuminated pushbutton top (or bottom), incl. lens set	137746 MSM-1-P-CA-P00-B9-137746
	-		-	P	1 illuminated pushbutton middle, incl. lens set	137744 MSM-1-P-CA-OP0-B8-137744
	-	-	M12	R	M12 plug bottom (or top) for the connection of an enabling switch	137596 MSM-1-R-DA-M00-A6-137596

	Version			Conne- ction type	Description	Order no./item
	Controls/indicators	Top	Middle			
		-			Illuminated emergency stop with protective collar, 1 illuminated pushbutton, including lens set	137020 MSM-1-P-CS-B0P-A2-137020
		-			Illuminated emergency stop, 1 illuminated pushbutton, incl. lens set	137738 MSM-1-P-CA-B0P-B5-137738
		-			2 illuminated pushbuttons top and bottom, incl. lens set	137740 MSM-1-P-CA-POP-B6-137740
			-		2 illuminated pushbuttons middle and top (or bottom), incl. lens set	137742 MSM-1-P-CA-PP0-B7-137742
					3 illuminated pushbuttons, incl. lens set	127040 MSM-1-P-CA-PPP-A9-127040
					Illuminated emergency stop with protective collar, 2 illuminated pushbuttons, including lens set	126381 MSM-1-P-CS-BPP-A5-126381
					Illuminated emergency stop, 2 illuminated pushbuttons, incl. lens set	136687 MSM-1-P-CA-BPP-A1-136687
					1 key-operated switch 1x90° form L, 2 illuminated pushbuttons, incl. lens set	137750 MSM-1-P-CA-JPP-C2-137750
					1 selector switch 1x90° form V, 2 illuminated pushbuttons, incl. lens set	137752 MSM-1-P-CA-KPP-C3-137752

Dimension drawings



»The complete sets – ready-made solutions with exactly the functions you need.«

- ▶ Modular design with submodules
- ▶ Up to six MGB2 *Modular* on one bus module
- ▶ Easy to extend
- ▶ Submodule replacement in operation
- ▶ For doors hinged on the right as well as on the left
- ▶ Integrated alignment aid
- ▶ Can be extended with all *Modular* devices

MGB2

Sets
Modular

Sets
Modular

Complete sets



Locking sets MGB2-L-...



- ▶ Interface to PROFINET/PROFIsafe
- ▶ Bus module with integrated switch
- ▶ Submodule with 2 pushbuttons and emergency stop
- ▶ Submodule with labeling
- ▶ Compatible with all Modular devices

Details

Guard locking types

L1 Closed-circuit current principle

Guard locking by spring force. Release by applying voltage to the guard locking solenoid.

L2 Open-circuit current principle

Guard locking by solenoid force. Activation of the guard locking by applying voltage to the guard locking solenoid.

PROFINET interface

The bus module MBM is available with one of the following PROFINET connections:

- ▶ Plug connector M12 D-coded (7/8" plug and M12 plug, D-coded) according to IEC 61076-2-101
- ▶ Plug connector RJ45, AIDA-compliant (push-pull plug according to IEC 61076-3-117, variant 14)

PROFINET switch

Linear topology network structure due to integrated switch (supports MRP).

Flexible use as interlocking or guard locking

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

Lens set


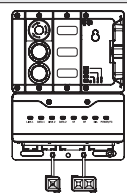
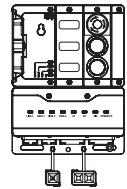


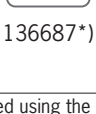


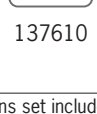
The color of the pushbuttons can be selected using the lens set 120344 included (5 colors).

Further information

- ▶ Dimension drawings see p. 32
- ▶ Accessories and spare parts see p. 60
- ▶ For detailed information, enter the order number for the product in the search box at www.euchner.com.

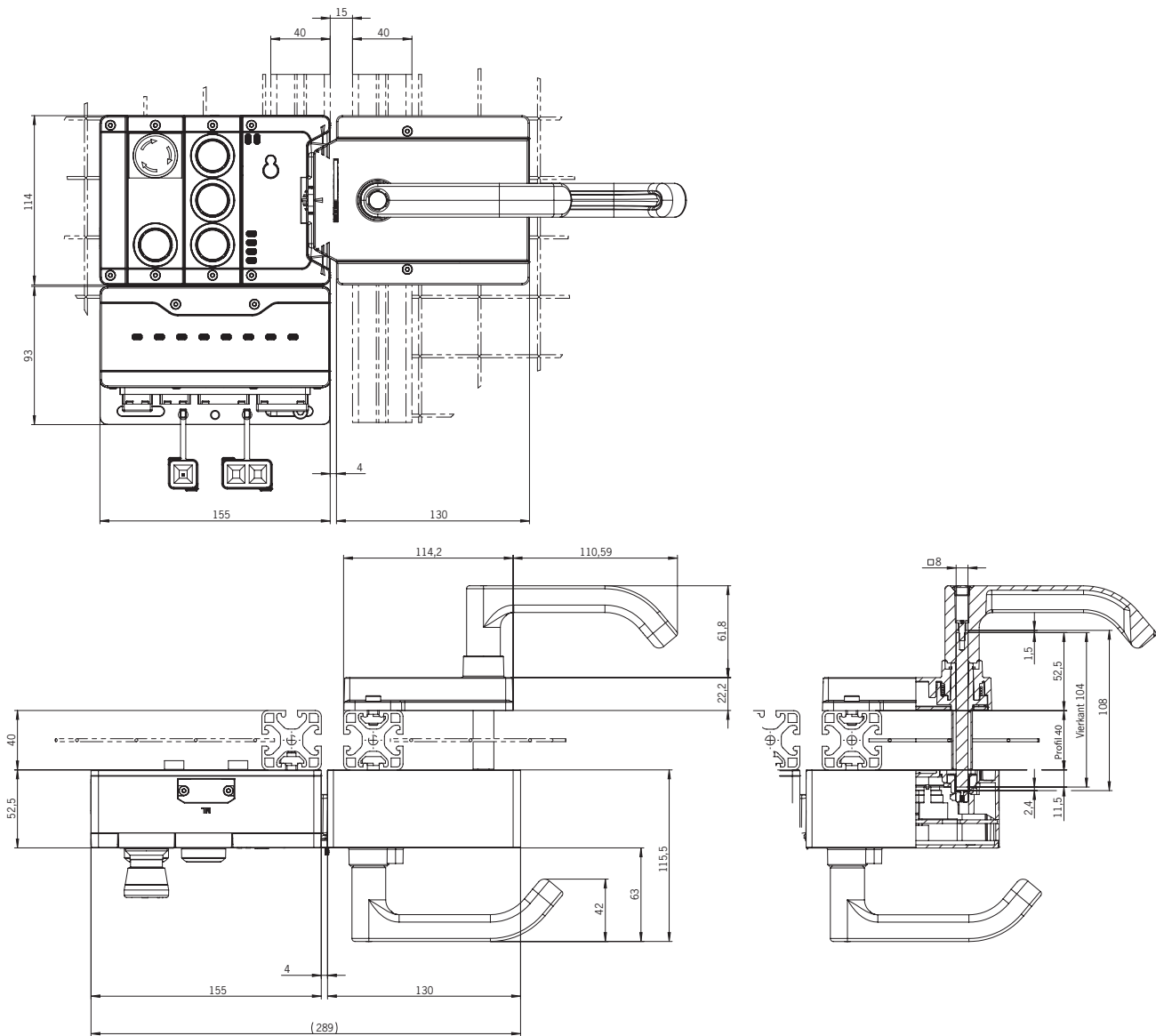
Ordering table

		Modules in the set			Set	
Locking module and bus module		Handle module Order no. separate module	Escape release Order no. separate module	Door stop (factory setting)	Order no./item	
Version/configuration scheme Order no. module combination	Submodules					
	Slot 1	Slot 2				
MGB2-L1 Closed-circuit current principle						
PN M12					156386 MGB2-L1HB-PN-U-S4-D-R-156386	
					156387 MGB2-L1HB-PN-U-S4-D-L-156387	
PN RJ45					156388 MGB2-L1HB-PN-U-S3-D-R-156388	
		136687*)	137610		156389 MGB2-L1HB-PN-U-S3-D-L-156389	

Modules in the set		Set				
		Order no. /item	Door stop (factory setting)	Handle module Order no. separate module	Escape release Order no. separate module	
Version/configuration scheme Order no. module combination	Submodules	Slot 1	Slot 2	Order no. /item	Door stop (factory setting)	Order no. /item
MGB2-L2 Open-circuit current principle						
  	   136687*)	   137610	136691		Right	156390 MGB2-L2HB-PN-U-S3-D-R-156390
				156394		Left

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

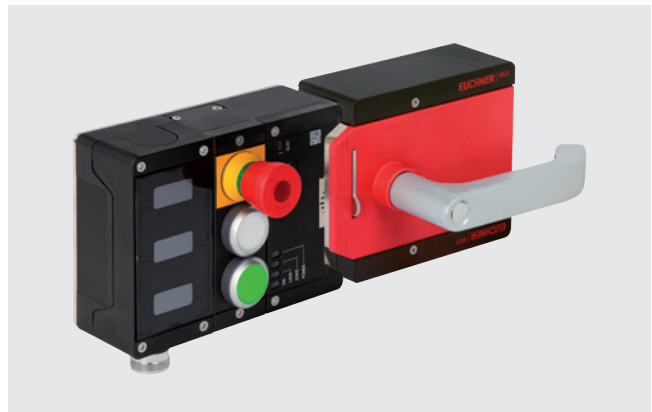
Dimension drawing



General	36	MGB2 Classic
The logical further development of the MGB – the MGB2 Classic	36	
MGB2 Classic – system components at a glance	37	
Example for the combination of the MGB2 Classic	38	
MGB2 Classic individual modules	40	Classic
Locking modules MGB2-L-...	42	
Handle modules MGB2-H-...	46	
Escape releases MGB-E-...	48	
Submodules MSM-1-...	50	
MGB2 Classic sets	54	Sets Classic
Accessories	60	
Index	72	

The logical further development of the MGB – the MGB2 Classic

- Easy to extend
- Submodule replacement in operation
- For doors hinged on the right as well as on the left
- Integrated alignment aid



MGB2 – the next generation MGB

The new MGB2 represents the logical further development of the globally successful Multifunctional Gate Box MGB. A revised design, new and extended functions, as well as a modular layout offer maximum flexibility and cost-effectiveness. The MGB2 is more than just pure safety door

protection. It makes it possible to integrate into one device all the relevant functions related to the safety door. The MGB2 is suitable for both hinged and sliding doors.

Proven technology enriched with innovations

Like its successful predecessor model, the MGB2 is equipped with a very robust, industrial housing and has an integrated metal door stop, as well as an integrated mounting plate. It can be mounted on doors hinged on the left and right, as well as on sliding doors. Changeover is performed during mounting. The locking force of 2,000 N effectively prevents unintentional opening of the guard. The MGB2 Classic meets the requirements of all relevant standards, e.g. EN ISO 13849-1 and EN ISO 14119.

All screws are equipped with the same Torx-T10 drive so that a single tool is sufficient. These and many other minor improvements in the housing design ease mounting and the connection of the individual system components.

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 MGB2-BP or an MGB2-BR device.
- ▶ In addition, guard lock monitoring can be switched on or off on devices with guard locking. When guard lock monitoring is switched on, the safe outputs are switched on if the guard is reliably locked. When guard lock monitoring is switched off, the safe outputs are switched on if the guard is closed and the bolt tongue is inserted into the MGB2.

- ▶ Release monitoring can be activated when guard lock monitoring is switched on. This signals whether the auxiliary release or escape release was actuated.
- ▶ Factory reset permits resetting to the factory settings

Choice of series connection or separate operation

All devices with MGB2-BR configuration can be wired directly in series without decreasing safety or the PL. This requires fewer evaluation units.

Devices with MGB2-BP configuration are particularly suitable for separate operation.

Reset pushbutton

Pressing the pushbutton resets the device. The configuration is retained.

Connection variants

Various types of connection submodules permit versatile modification of the wiring for the MGB2 Classic. Connection modules are available with the following:

- ▶ M23 plug connector (RC18)
- ▶ Cable entry

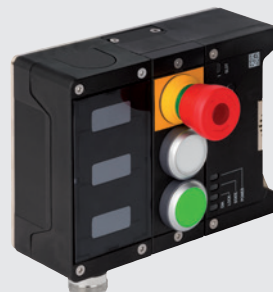
MGB2 Classic – system components at a glance

Locking modules MGB2 Classic – guard locking for protection of persons and processes

The MGB2 locking module is available in different versions for process protection guard locking or personnel protection guard locking. It can be mounted on doors hinged on the left or right, and on sliding doors. Together with a handle module, safety doors can be used as movable guards with an interlocking device, with or without guard locking according to EN ISO 14119.

There is space for one submodule MSM. In this way a very wide range of control elements from emergency stops, through pushbuttons, to key-operated rotary switches can be added such that a complete control terminal can be created on the door.

Locking module MGB2



Handle module MGB2-H

The actuating direction can be changed very easily for doors hinged on the left or right.

The bolt tongue is reliably detected by a transponder as soon as it is inserted into the evaluation module. For cleaning and service on the machine, the bolt tongue can be locked with max. 3 padlocks using the fold-out lockout mechanism. The MGB2 has a robust door handle that can be rotated in 90° steps to suit all installations. As an alternative to the door handle, the handle module can also be equipped or retrofitted with a door knob.

Handle module MGB2-H



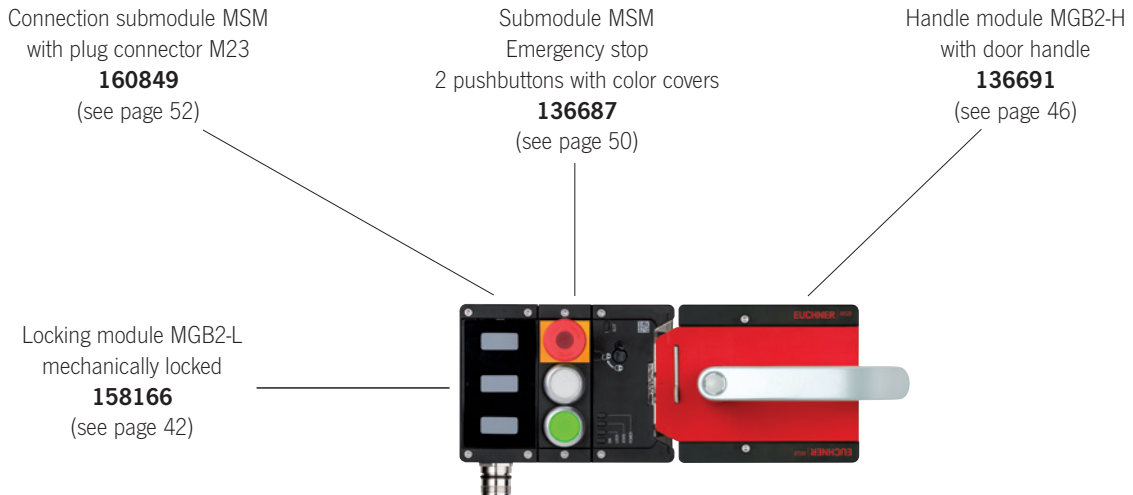
Submodules MSM – a new concept for maximum variety

A large selection of different submodules MSM make the MGB2 into a small control system. Different submodules are available to adapt the MGB2 optimally to the control functions necessary for a machine or installation, whether for labeling or with pushbuttons, an emergency stop or a connection for an enabling switch.

Different submodules



Example for the combination of the MGB2 Classic



MGB2

Classic

»Maximum flexibility – put together your specific MGB2 *Classic*.«

- ▶ Modular design with submodules
- ▶ Easy to extend
- ▶ Up to 10 BR devices can be connected in series in a chain
- ▶ Submodule replacement in operation
- ▶ For doors hinged on the right as well as on the left
- ▶ Integrated alignment aid

MGB2

Classic

Locking module



MGB2-L

Handle module



MGB2-H

Escape release



MGB-E

Submodules



MSM

Classic

Locking modules MGB2-L-...



- ▶ Guard locking for protection of persons or processes
- ▶ Slot for submodules
- ▶ Door stop can be changed to right/left
- ▶ Category 4/PL e for the evaluation of all safety functions

Details

Available coding options

- ▶ Unicode evaluation
- ▶ Multicode evaluation

Guard locking types

L1 Closed-circuit current principle

Guard locking by spring force. Release by applying voltage to the guard locking solenoid.

L2 Open-circuit current principle

Guard locking by solenoid force. Activation of the guard locking by applying voltage to the guard locking solenoid.

Door stop

On the locking modules, the door stop can be changed from right to left and vice versa at any time with little effort.

Version BJ

Version BJ locking modules are suitable for the connection of Stacklights or enabling switches.

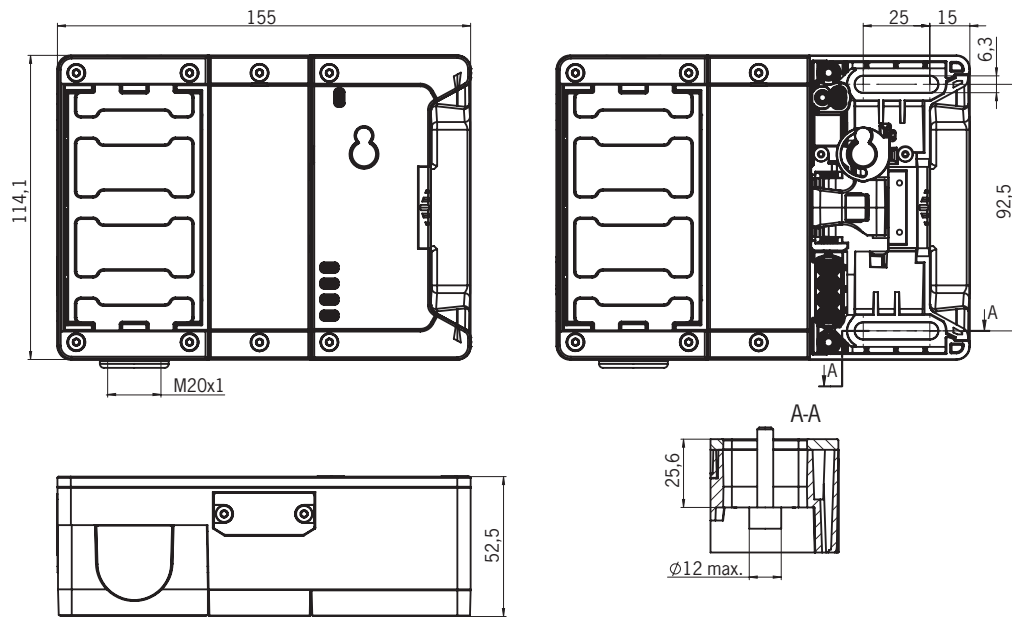
Further information

- ▶ Dimension drawings see p. 43
- ▶ Accessories and spare parts see p. 60
- ▶ For detailed information, enter the order number for the product in the search box at www.euchner.com.

Ordering table

Version	Coding U = unicode M = multicode	Submodule Slot 1	Version BJ	Door stop (factory setting)	Order no./item
MGB2-L1					
Closed-circuit current principle					
	U	-	●	Right	158166 MGB2-L1-BR-U-X0000-BJ-158166
		-	-	Right	136774 MGB2-L1-BR-U-X0000-BX-136774
	M	-	●	Right	161027 MGB2-L1-BR-M-X0000-BJ-161027
		-	-	Right	161021 MGB2-L1-BR-M-X0000-BX-161021
MGB2-L2					
Open-circuit current principle					
	U	-	●	Right	158168 MGB2-L2-BR-U-X0000-BJ-158168
		-	-	Right	138012 MGB2-L2-BR-U-X0000-BX-138012
	M	-	●	Right	161029 MGB2-L2-BR-M-X0000-BJ-161029
		-	-	Right	161023 MGB2-L2-BR-M-X0000-BX-161023

Dimension drawing



Terminal assignment

Pin	Designation	Function
X1.1	UB	Operating voltage BR electronics, DC 24 V
X1.2	F1A	Enable input for channel A If operated separately (BP), set DIP switch as per operating instructions.
X1.3	F1B	Enable input for channel B If operated separately (BP), set DIP switch as per operating instructions.
X1.4	OT/C	Bolt tongue monitoring output ON when the door is closed and the bolt tongue is inserted into the locking module. Optional: BR diagnostic output
X1.5	OD	Door monitoring output ON when the door is closed. Optional: BR diagnostic output
X1.6	OL	Guard locking monitoring output ON when the door is closed and locked. (On MGB2-I, no function)
X1.7	OI	Monitoring output DIA ON when the device is in the fault state
X1.8	F01A	Safety output channel A ON when door is closed and locked / interlocked. Attention: Pay attention to position of the DIP switch.
X2.1	0 V UB	Operating voltage BR electronics, DC 0 V
X2.2	S2 1.2	See the enclosed data sheet for the submodule
X2.3	S2 2.2	
X2.4	S1 LED	
X2.5	S2 LED	
X2.6	S3 LED	
X2.7	RST	
X2.8	F01B	Safety output channel B ON when door is closed and locked/interlocked. Attention: Pay attention to position of the DIP switch.
X3.1	IMP	Operating voltage guard locking solenoid, DC 24 V
X3.2	IMM	Operating voltage guard locking solenoid, DC 0 V
X3.3	S1 1.1	See the enclosed data sheet for the submodule
X3.4	S1 2.1	
X3.5	S1 1.2	
X3.6	S1 2.2	
X3.7	S3 1.2	
X3.8	S3 2.2	
X4.1	S2 1.1	See the enclosed data sheet for the submodule
X4.2	S2 2.1	
X4.3	ZS 1.1	
X4.4	ZS 2.1	
X4.5	ZS 1.2	
X4.6	S3 1.1	
X4.7	S3 2.1	
X4.8	ZS 2.2	

MGB2-L

Handle modules MGB2-H...



- ▶ Bolt tongue with transponder
- ▶ Fold-out lockout mechanism
- ▶ Second automatically extending lockout mechanism (optional)
- ▶ Silver-colored door handle or door knob

Details

Bolt tongue

The bolt tongue is reliably detected by a transponder as soon as it is inserted into 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 using the fold-out lockout mechanism. In this way the operation of the handle is prevented in the locked state.

Additionally, the optional lockout mechanism that extends automatically on the actuation of the handle can be used for 3 more padlocks.

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 or retrofitted with a door knob.

Lockable from the inside

Handle modules with this function can be returned to the closed position from inside the installation using an escape release.

Important: The actuating direction is not adjustable.

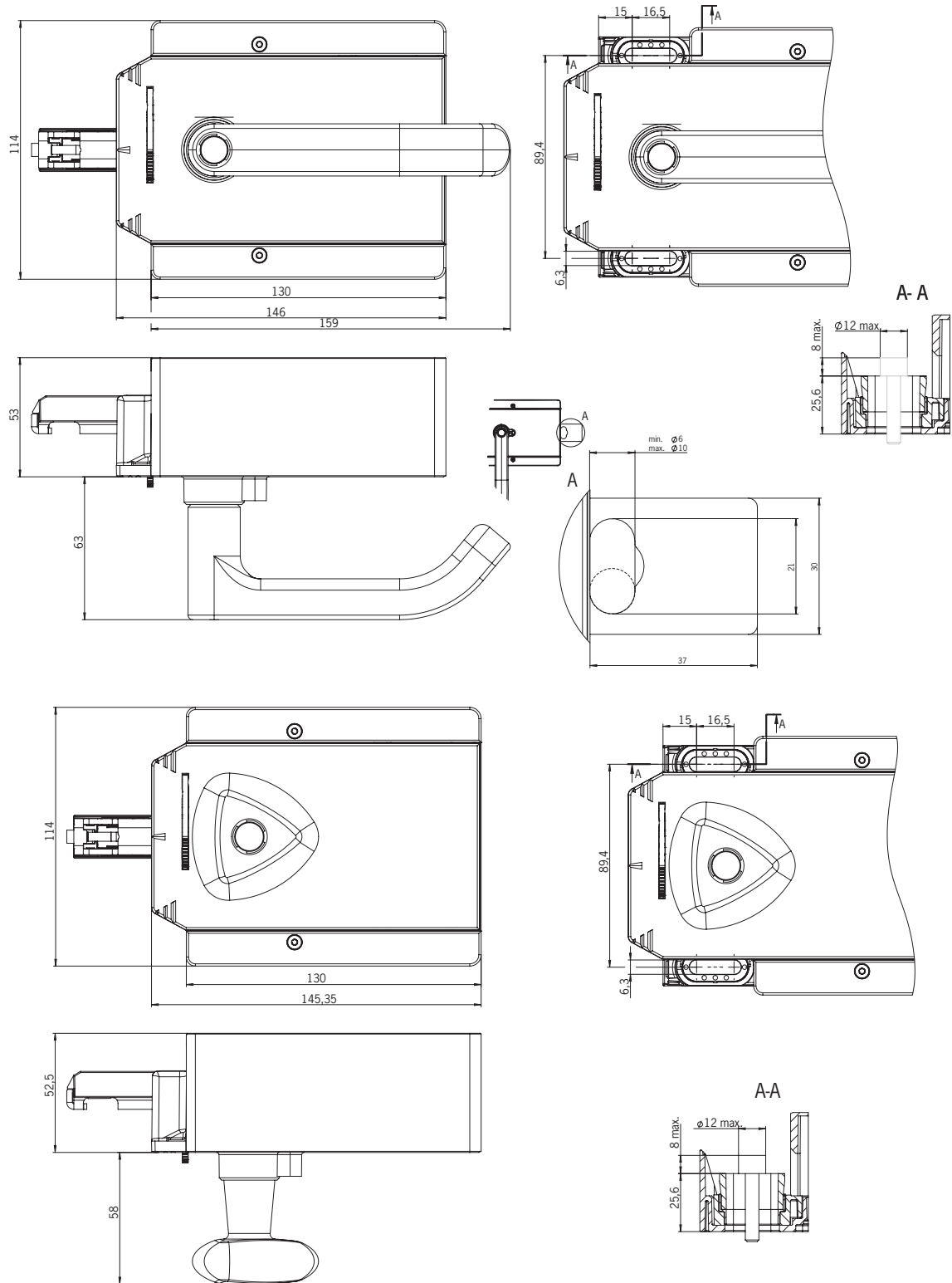
Further information

- ▶ Dimension drawings see p. 47
- ▶ Accessories and spare parts see p. 60
- ▶ For detailed information, enter the order number for the product in the search box at www.euchner.com.

Ordering table

Version	Door handle	Door knob	Lockable from the inside	Automatically extending lockout mechanism	Fold-out lockout mechanism	Door stop (factory setting)	Order no./item
	●				●	Right	137617 MGB2-H-BA1A1-R-137617
	●				●	Left	156396 MGB2-H-BA1A1-L-156396
	●			●	●	Right	136691 MGB2-H-BA1A3-R-136691
	●			●	●	Left	156394 MGB2-H-BA1A3-L-156394
		●		●	●	Right	157019 MGB2-H-BA1A5-R-157019
		●		●	●	Left	157020 MGB2-H-BA1A5-L-157020
	●		●	●	●	Right	157021 MGB2-H-BA1A8-R-157021
	●		●	●	●	Left	157022 MGB2-H-BA1A8-L-157022

Dimension drawing



Escape releases MGB-E-...



- ▶ Red door handle or door knob
- ▶ Extended actuation axis for thicker doors (available optionally)

Details

Escape release

The safety system MGB2 can be equipped with an escape release module. The escape release enables people shut in to open the locked door from the danger zone. It is only necessary to actuate the door handle. The actuating direction automatically adapts to the actuating direction of the handle module and does not need to be changed. The actuation axis supplied is suitable for profiles up to 40 mm.

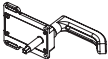

Extended actuation axis

Optionally, a 250 mm (instead of 107 mm) long actuation axis 106761 can be ordered for thicker doors or profiles > 40 mm. The axis can be shortened to the required dimension.

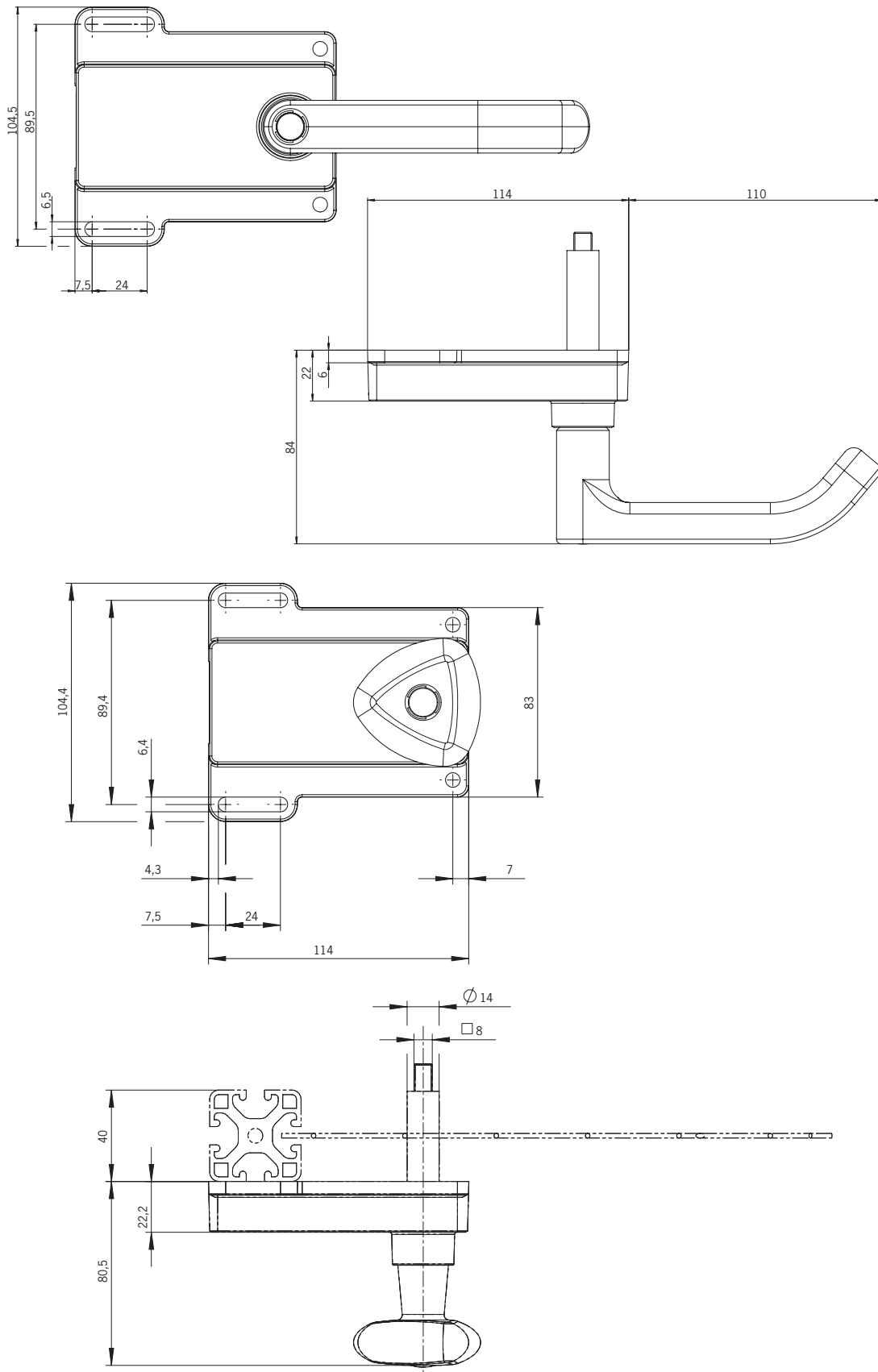
Further information

- ▶ Dimension drawings see p. 49
- ▶ Accessories and spare parts see p. 60
- ▶ For detailed information, enter the order number for the product in the search box at www.euchner.com.

Ordering table

Version	Door handle	Door knob	Order no./item
	●		100465 MGB-E-A-100465
		●	117126 MGB-E-A7-117126

Dimension drawing



Submodules MSM-1-...



- ▶ Controls and indicators for installation in locking and extension modules
- ▶ Installation rotated by 180° possible
- ▶ Incl. lens set for pushbuttons

Details

Lens set

The color of the pushbuttons can be selected using the lens set 120344 included (5 colors).

Illuminated emergency stop

Emergency stop with illumination that can be controlled as required.

Emergency stop with monitoring contact

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

Emergency stop with protective collar

A protective collar protects the emergency stop against unintentional operation.

Labeling fields

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

















Further information






































- ▶ Dimension drawings see p. 52
- ▶ Accessories and spare parts see p. 60
- ▶ For detailed information, enter the order number for the product in the search box at www.euchner.com.



Ordering table

For use with:

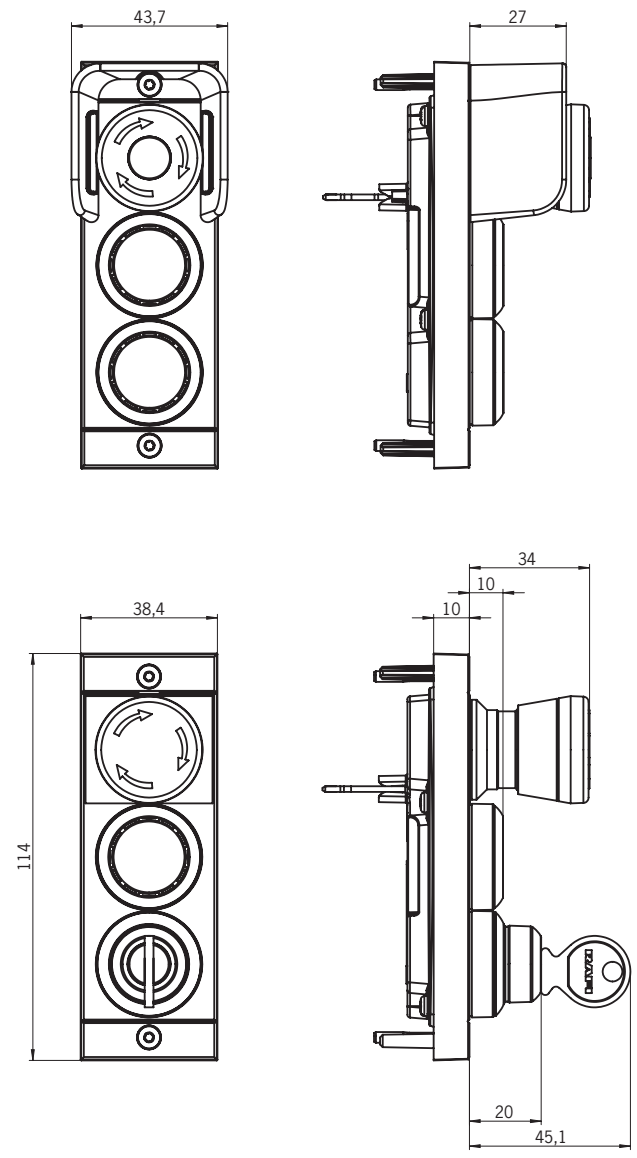
MGB2 Modular MGB2 Classic MCM 	MGB2 Modular MGB2 Classic MCM 	MGB2 Classic 
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	Version			Connec- tion type	Description	Order no./item
	Controls/indicators					
	Top	Middle	Bottom			
	-	-	-		Blanking cover for submodule slot	126372 MSM-1-N-AA-000-A4-126372
		-	-		1 illuminated pushbutton top (or bottom), incl. lens set	137746 MSM-1-P-CA-P00-B9-137746
					1 illuminated pushbutton middle, incl. lens set	137744 MSM-1-P-CA-OP0-B8-137744
		-			Illuminated emergency stop with protective collar, 1 illuminated pushbutton, including lens set	137020 MSM-1-P-CS-BOP-A2-137020
		-			Illuminated emergency stop, 1 illuminated pushbutton, incl. lens set	137738 MSM-1-P-CA-BOP-B5-137738

	Version			Connec- tion type	Description	Order no./item
	Controls/indicators Top	Middle	Bottom			
		-		K	Emergency stop with monitoring contact, 1 illuminated pushbutton, incl. lens set	137734 MSM-1-K-CA-COP-B3-137734
		-		P	2 illuminated pushbuttons top and bottom, incl. lens set	137740 MSM-1-P-CA-POP-B6-137740
			-	P	2 illuminated pushbuttons middle and top (or bottom), incl. lens set	137742 MSM-1-P-CA-PP0-B7-137742
				P	3 illuminated pushbuttons, incl. lens set	127040 MSM-1-P-CA-PPP-A9-127040
				P	Illuminated emergency stop with protective collar, 2 illuminated pushbuttons, including lens set	126381 MSM-1-P-CS-BPP-A5-126381
				P	Illuminated emergency stop, 2 illuminated pushbuttons, incl. lens set	136687 MSM-1-P-CA-BPP-A1-136687
				K	Emergency stop with monitoring contact, 2 illuminated pushbuttons, incl. lens set	137732 MSM-1-K-CA-CPP-B2-137732
				K	Emergency stop with monitoring contact, 1 illuminated pushbutton, 1 key-operated rotary switch 1x90°, form L, including lens set	137736 MSM-1-K-CA-CPJ-B4-137736
				P	1 key-operated switch 1x90° form L, 2 illuminated pushbuttons, incl. lens set	137750 MSM-1-P-CA-JPP-C2-137750
				P	1 selector switch 1x90° form V, 2 illuminated pushbuttons, incl. lens set	137752 MSM-1-P-CA-KPP-C3-137752

	Controls/indicators			Version	Description	Order no./item
	Top	Middle	Bottom	Connec- tion type		
	-	-	-	M20x1	Connection submodule cable entry, incl. 3 adhesive labels (silver, without marking), label holder (AY-C-A2-156733) and 4 socket connectors (AC-SET-CC-A1-136572)	160847 MSM-C-K-BA-SBS-S0-160847
	-	-	-	M23	Connection submodule M23 (AR with NH), incl. 3 adhesive labels (silver, without marking), and label holder (AY-C-A2-156733)	160849 MSM-C-K-BA-SH0-S1-160849

Dimension drawings



Terminal assignment MSM-C-K-BA-SHO-S1-160849

M23 **19 pin**

Pin	Designation	Function
1	IMP	Operating voltage guard locking solenoid, DC 24 V
2	FI1A	Enable input for channel A If operated separately (BP), set DIP switch as per operating instructions.
3	FI1B	Enable input for channel B If operated separately (BP), set DIP switch as per operating instructions.
4	F01A	Safety output channel A ON when door is closed and locked / interlocked. Attention: Pay attention to position of the DIP switch.
5	F01B	Safety output channel B ON when door is closed and locked/interlocked. Attention: Pay attention to position of the DIP switch.
6	UB	Operating voltage BR electronics, DC 24 V
7	RST	Reset input, device is reset if DC 24 V is applied to RST for min. 3 s.
8	OT/C	Bolt tongue monitoring output ON when the door is closed and the bolt tongue is inserted into the locking module. Optional: BR diagnostic output
9	OI	Monitoring output DIA ON when the device is in the fault state
10	X3.3	See the enclosed data sheet for the submodule
11	X3.5	
12	Not used	See the enclosed data sheet for the submodule
13	X3.4	
14	X3.6	
15	X2.2	
16	X2.5	
17	X3.7	
18	X2.6	
19	OV UB + IMM	Operating voltage BR electronics, DC 0 V, and operating voltage guard locking solenoid, DC 0 V

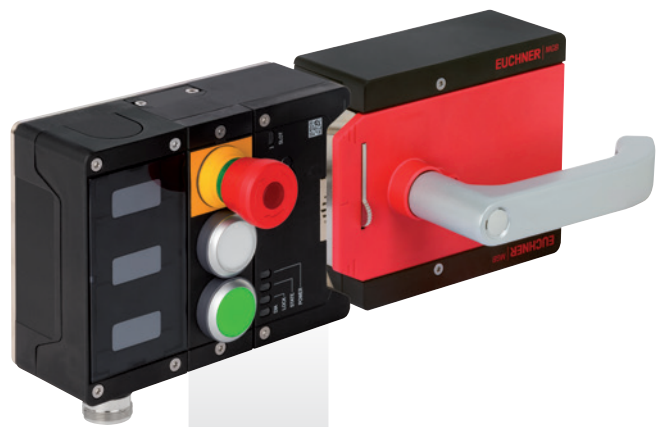
»The complete sets – ready-made solutions with exactly the functions you need.«

- ▶ Modular design with submodules
- ▶ Up to 10 BR devices can be connected in series in a chain
- ▶ Easy to extend
- ▶ Submodule replacement in operation
- ▶ For doors hinged on the right as well as on the left
- ▶ Integrated alignment aid

MGB2

Sets
Classic

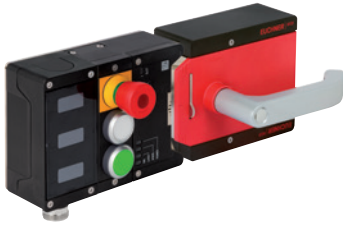
Complete sets



MGB2

Sets
Classic

Locking sets MGB2-L-...



- ▶ Submodule with 2 pushbuttons and emergency stop
- ▶ Submodule with labeling

Details

Available coding options

- ▶ Unicode evaluation
- ▶ Multicode evaluation

Guard locking types

L1 Closed-circuit current principle

Guard locking by spring force. Release by applying voltage to the guard locking solenoid.

L2 Open-circuit current principle

Guard locking by solenoid force. Activation of the guard locking by applying voltage to the guard locking solenoid.

Lens set

The color of the pushbuttons can be selected using the lens set 120344 included (5 colors).

Further information

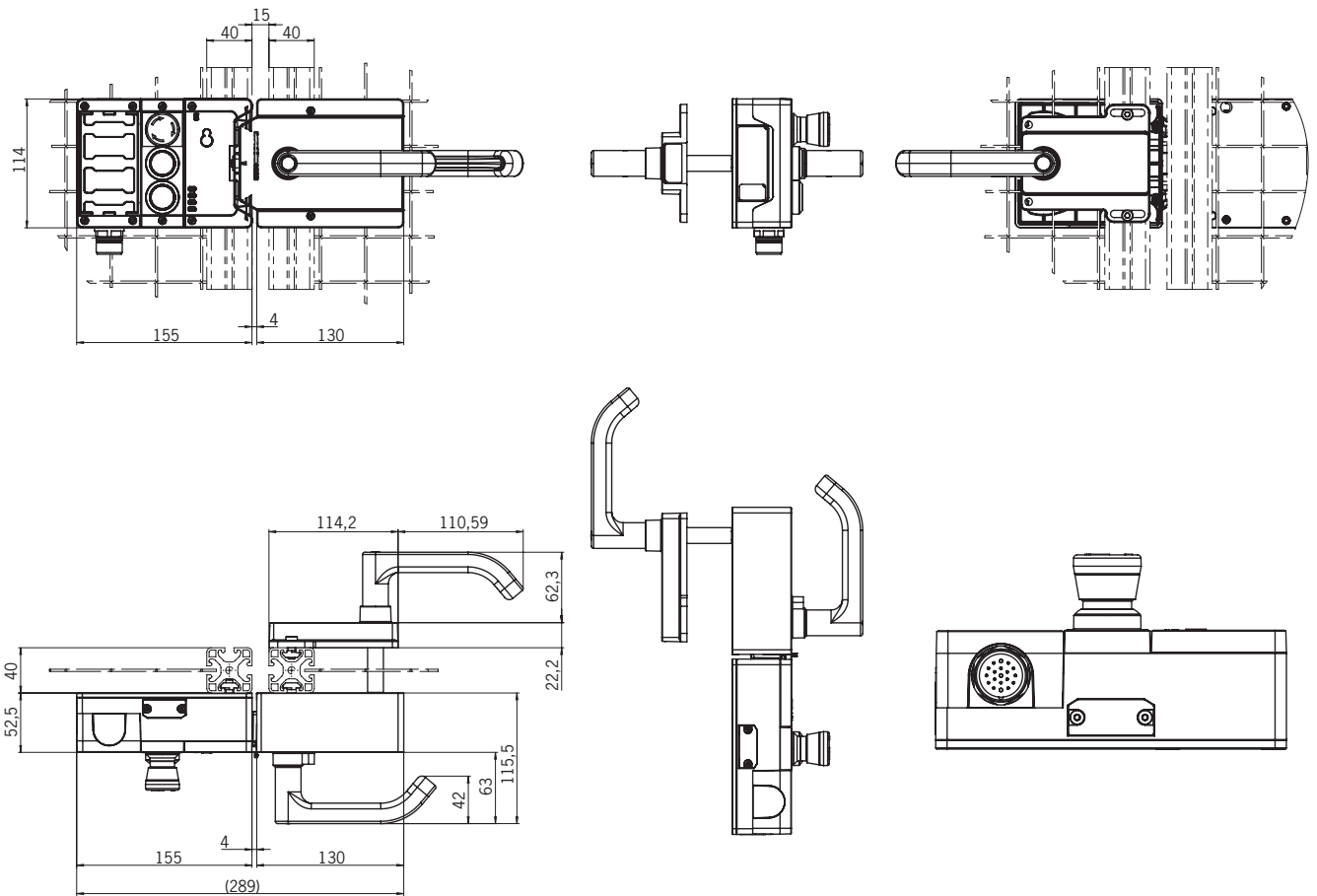
- ▶ Dimension drawings see p. 57
- ▶ Accessories and spare parts see p. 60
- ▶ For detailed information, enter the order number for the product in the search box at www.euchner.com.

Ordering table

Modules in the set							Set
Locking module	Coding U = unicode M = multicode	Connection sub-module Order no. separate module	Submodule slot 1 Order no. separate module	Handle module Order no. separate module	Escape release Order no. separate module	Door stop (factory setting)	Order no./item
MGB2-L1 Closed-circuit current principle							
 158166	U	 160847	 137732*)	-	-	Right	158394 MGB2-L1-BR-U-XB2S0-DB-R-158394
			 136691	-	Right	161774 MGB2-L1H-BR-U-S0-DB-R-161774	
		 160849	 137732*)	-	-	Right	160748 MGB2-L1-BR-U-XB2S1-DY-R-160748
			 136691	-	Right	161786 MGB2-L1H-BR-U-S1-DY-R-161786	

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

Dimension drawing



Terminal assignment

M20x1

Pin	Designation	Function
X1.1	UB	Operating voltage BR electronics, DC 24 V
X1.2	F1A	Enable input for channel A If operated separately (BP), set DIP switch as per operating instructions.
X1.3	F1B	Enable input for channel B If operated separately (BP), set DIP switch as per operating instructions.
X1.4	OT/C	Bolt tongue monitoring output ON when the door is closed and the bolt tongue is inserted into the locking module. Optional: BR diagnostic output
X1.5	OD	Door monitoring output ON when the door is closed. Optional: BR diagnostic output
X1.6	OL	Guard locking monitoring output ON when the door is closed and locked. (On MGB2-I, no function)
X1.7	OI	Monitoring output DIA ON when the device is in the fault state
X1.8	F01A	Safety output channel A ON when door is closed and locked / interlocked. Attention: Pay attention to position of the DIP switch.
X2.1	0 V UB	Operating voltage BR electronics, DC 0 V
X2.2	S2 1.2	See the enclosed data sheet for the submodule
X2.3	S2 2.2	
X2.4	S1 LED	
X2.5	S2 LED	
X2.6	S3 LED	
X2.7	RST	Reset input, device is reset if DC 24 V is applied to RST for min. 3 s.
X2.8	F01B	Safety output channel B ON when door is closed and locked/interlocked. Attention: Pay attention to position of the DIP switch.
X3.1	IMP	Operating voltage guard locking solenoid, DC 24 V
X3.2	IMM	Operating voltage guard locking solenoid, DC 0 V
X3.3	S1 1.1	See the enclosed data sheet for the submodule
X3.4	S1 2.1	
X3.5	S1 1.2	
X3.6	S1 2.2	
X3.7	S3 1.2	
X3.8	S3 2.2	
X4.1	S2 1.1	See the enclosed data sheet for the submodule
X4.2	S2 2.1	
X4.3	ZS 1.1	
X4.4	ZS 2.1	
X4.5	ZS 1.2	
X4.6	S3 1.1	
X4.7	S3 2.1	
X4.8	ZS 2.2	

M23 **19**
pin

Pin	Designation	Function
1	IMP	Operating voltage guard locking solenoid, DC 24 V
2	FI1A	Enable input for channel A If operated separately (BP), set DIP switch as per operating instructions.
3	FI1B	Enable input for channel B If operated separately (BP), set DIP switch as per operating instructions.
4	F01A	Safety output channel A ON when door is closed and locked / interlocked. Attention: Pay attention to position of the DIP switch.
5	F01B	Safety output channel B ON when door is closed and locked/interlocked. Attention: Pay attention to position of the DIP switch.
6	UB	Operating voltage BR electronics, DC 24 V
7	RST	Reset input, device is reset if DC 24 V is applied to RST for min. 3 s.
8	OT/C	Bolt tongue monitoring output ON when the door is closed and the bolt tongue is inserted into the locking module. Optional: BR diagnostic output
9	OI	Monitoring output DIA ON when the device is in the fault state
10	X3.3	See the enclosed data sheet for the submodule
11	X3.5	
12	Not used	
13	X3.4	See the enclosed data sheet for the submodule
14	X3.6	
15	X2.2	
16	X2.5	
17	X3.7	
18	X2.6	
19	0V UB + IMM	

“Exploit all the advantages –
with well thought-out
original accessories from
EUCHNER.”

- ▶ Connection material – connect safely and easily; no long search for cables and plug connectors.
- ▶ Fixing material – secure and easy mounting for many installation situations.

Accessories

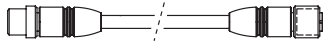
Connection material

M12 5 pin PUR

Connecting cables with plug connector

For the connection of:

MGB2
Modular

Version		Order no./item
<p>M12</p> <p>5 pin</p> <p>PUR</p>	<p>Extension, female connector to plug connector</p> 	<p>5m</p> <p>119932 C-M12F05-05X034PU05,0-M12M05-119932</p>
		<p>10m</p> <p>119947 C-M12F05-05X034PU10,0-M12M05-119947</p>
		<p>20m</p> <p>119971 C-M12F05-05X034PU20,0-M12M05-119971</p>

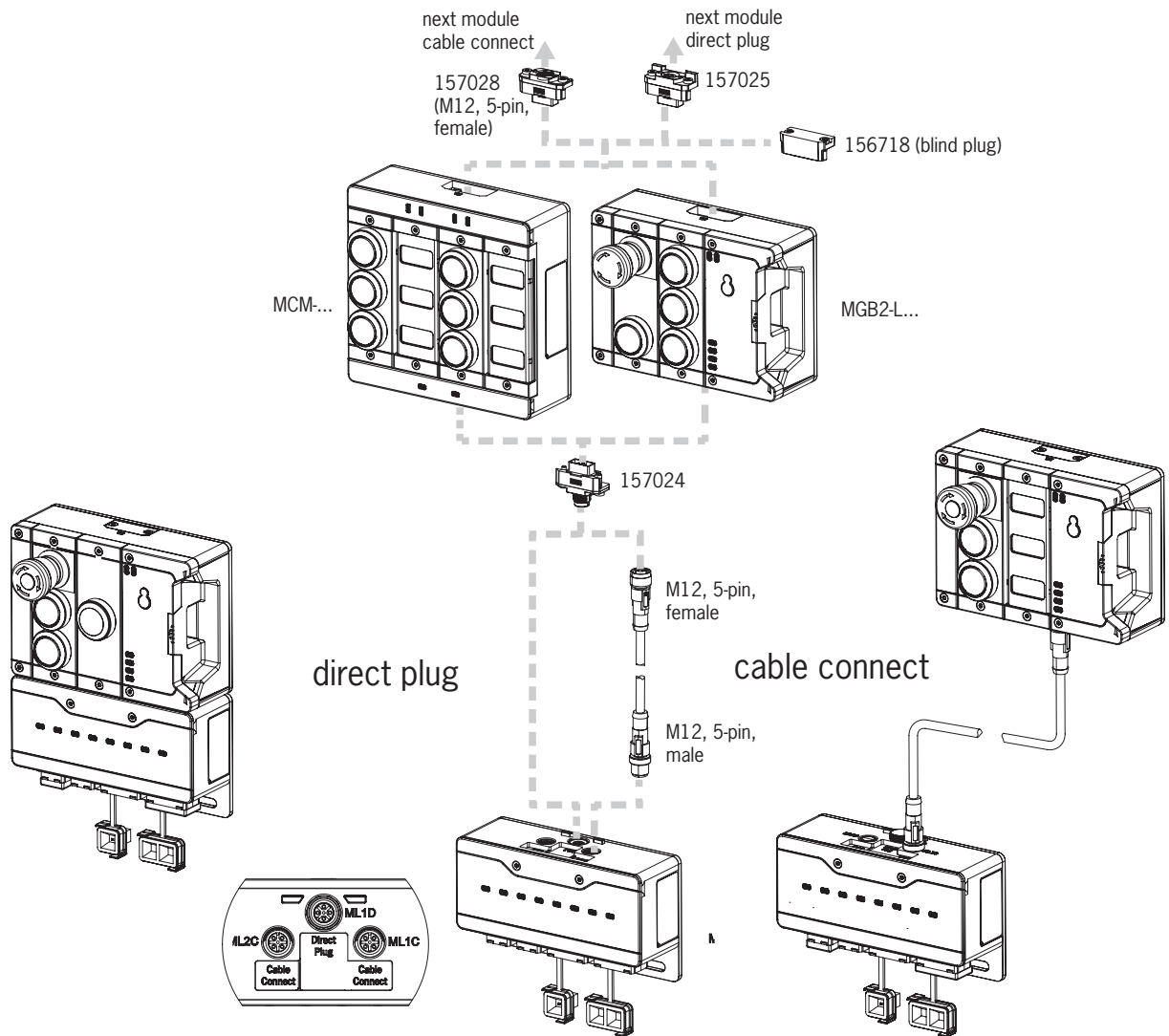
MLI module plug connectors for Modular devices

For the connection of:

MGB2
Modular

Version		Order no./item
<p>M12</p> <p>5 pin</p>	<p>MLI module plug connector, 5-pin male, A-coded for the connection of modules using a cable</p>	<p>157024 AC-MC-SB-M-A-157024</p>
	<p>MLI module plug connector, 5-pin female, without thread, for the direct connection of modules</p>	<p>157025 AC-MC-SB-F-B-157025</p>
	<p>MLI module plug connector 5-pin female, with thread, A-coded for the connection of modules using a cable</p>	<p>157028 AC-MC-SB-F-A-157028</p>
	<p>Blanking cover for unused connections</p>	<p>156718 AC-MC-00-0-B-156718</p>

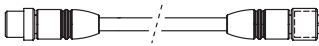
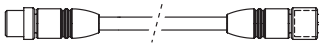
Example for the combination of MGB2 Modular and MBM



Connecting cables with plug connector according to AIDA standard

For the connection of:

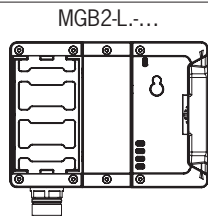
MGB2
Modular

Version		Order no./item
<p>M12 5 pin PUR</p> <p>YE</p> <p>Yellow cable, female connector to plug connector</p> 	1m	159362 C-M12F05-05X034PU1,0-M12M05
	1,5m	159363 C-M12F05-05X034PU1,5-M12M05
	3m	159364 C-M12F05-05X034PU3,0-M12M05
	5m	159365 C-M12F05-05X034PU5,0-M12M05
	8m	159919 C-M12F05-05X034PU8,0-M12M05
	10m	159920 C-M12F05-05X034PU10,0-M12M05
	15m	159921 C-M12F05-05X034PU15,0-M12M05
<p>M12 5 pin PUR</p> <p>GY</p> <p>Gray cable, female connector to plug connector</p> 	1m	159355 C-M12F05-05X034PU1,0-M12M05
	1,5m	159356 C-M12F05-05X034PU1,5-M12M05
	3m	159357 C-M12F05-05X034PU3,0-M12M05
	5m	159358 C-M12F05-05X034PU5,0-M12M05
	8m	159359 C-M12F05-05X034PU8,0-M12M05
	10m	159360 C-M12F05-05X034PU10,0-M12M05
	15m	159361 C-M12F05-05X034PU15,0-M12M05

Connecting cable with straight plug connector

For the connection of:

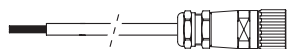
MGB2
Classic



Version	Order no./item
1,5m	092761 C-M23F19-19XDIFPU01,5-MA-092761
3m	092816 C-M23F19-19XDIFPU03,0-MA-092816
6m	077014 C-M23F19-19XDIFPU06,0-MA-077014
8m	077015 C-M23F19-19XDIFPU08,0-MA-077015
10m	092898 C-M23F19-19XDIFPU08,0-MA-077015
15m	077016 C-M23F19-19XDIFPU15,0-MA-077016
20m	092726 C-M23F19-19XDIFPU20,0-MA-092726
25m	092727 C-M23F19-19XDIFPU25,0-MA-092727
30m	095993 C-M23F19-19XDIFPU30,0-MA-095993
40m	102490 C-M23F19-19XDIFPU40,0-MA-102490

M23
19 pin
PUR

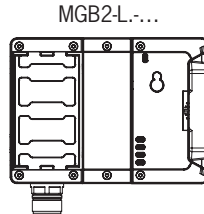
Connecting cable with female connector, flying lead



Connecting cable with angled plug connector

For the connection of:

MGB2
Classic



The following applies to the device installation position shown:



Version	Order no./item Cable outlet		
	C	A	
<p>M23 19 pin PUR</p> <p>Female connector angled with cable, halogen-free</p>	1,5m	092906 C-M23F19-19XDIFPU01,5- MA-092906	092907 C-M23F19-19XDIFPU01,5- MA-092907
	3m	092908 C-M23F19-19XDIFPU03,0- MA-092908	092909 C-M23F19-19XDIFPU03,0- MA-092909
	6m	077018 C-M23F19-19XDIFPU06,0- MA-077018	085194 C-M23F19-19XDIFPU06,0- MA-085194
	8m	077019 C-M23F19-19XDIFPU08,0- MA-077019	085195 C-M23F19-19XDIFPU08,0- MA-085195
	10m	092901 C-M23F19-19XDIFPU10,0- MA-092901	092902 C-M23F19-19XDIFPU10,0- MA-092902
	15m	077020 C-M23F19-19XDIFPU15,0- MA-077020	085196 C-M23F19-19XDIFPU15,0- MA-085196
	20m	092910 C-M23F19-19XDIFPU20,0- MA-092910	092911 C-M23F19-19XDIFPU20,0- MA-092911
	25m	092912 C-M23F19-19XDIFPU25,0- MA-092912	092913 C-M23F19-19XDIFPU25,0- MA-092913

Plug connectors

For the connection of:



	Version	Order no./item
M12	Module connector M12 plug connector, 5-pin, female for the connection of an enabling switch ZS to a MGB2 Classic locking module, version BJ	157030 AC-MC-SIF-A-157030
5 pin	Module connector M12 plug connector, 5-pin, female for the connection of a signal light on the MCM or to a MGB2 Classic locking module, version BJ	161345 AC-MC-SB-F-A-161345

For the connection of:



	Version	Order no./item
M12	M12 plug connector, 8-pin, female for the connection of a signal light on the MCM or to a MGB2 Classic locking module, version BJ	157029 AC-MC-SA-F-A-157029
8 pin		

M23

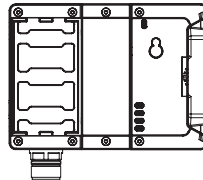
19
pin

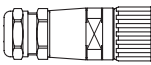
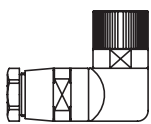
Female connectors M23

For the connection of:

MGB2
Classic

MGBS-P-L-AR-...-SH-...

































Version	Comment	Order no.
Straight female connector (for self-assembly) 	EF Female connector For conductor cross-section $19 \times 0.75 - 1 \text{ mm}^2$	074616
	EF-C1825 Female connector For conductor cross-section $16 \times 0.25 - 0.5 \text{ mm}^2 + 3 \times 0.75 - 1 \text{ mm}^2$	077025
Female connector angled (for self-assembly) 	WF Female connector angled For conductor cross-section $19 \times 0.75 - 1 \text{ mm}^2$	074617
	WF-C1825 Female connector angled For conductor cross-section $16 \times 0.25 - 0.5 \text{ mm}^2 + 3 \times 0.75 - 1 \text{ mm}^2$	077026
Replacement crimp contacts	For female connectors EF and WF Conductor cross-section $19 \times 0.75 - 1 \text{ mm}^2$	094309
	For female connectors EF-C1825 and WF-C1825 Conductor cross-section $16 \times 0.25 - 0.5 \text{ mm}^2 + 3 \times 0.75 - 1 \text{ mm}^2$	094310

M23

19
pin

Miscellaneous accessories





Lenses, adhesive labels

	Version	Order no./item
	Lens set, 6-piece, 5 colors 2 x WH  1 x BU  1 x YE  1 x GN  1 x RD 	120344 AY-SET-LNS-0001-120344
	Lens set, 6-piece, 6 colors 1 x WH  1 x BU  1 x YE  1 x GN  1 x RD  1 x BK 	120378 AY-SET-LNS-0002-120378
MGB2 Modular	Lens set labeled, 6-piece 1 x WH  1 x WH  1 x WH  1 x WH  1 x WH  1 x GN 	120377 AY-SET-LNS-SY01-120377
	MGB2 Classic	Lens set labeled, 15-piece 1 x WH  4 x BK  1 x WH  1 x WH  1 x WH  1 x WH  1 x WH  1 x WH  2 x WH  2 x WH 
Lens set labeled, 3-piece 1 x WH  1 x YE  1 x GN 		126158 AY-SET-LNS-SY03-126158
Adhesive labels		114529 MGB-A-PLATESET-NN01-114529

Extended actuation axis, door handle, door knob

	Version	Order no./item
MGB2 Modular MGB2 Classic	Extended actuation axis for inner door handle MGB-E...	106761 AY-ERS-250-106761
	Silver door handle for MGB2-H	156944 AY-DHL-S1-156944
	Silver door knob for MGB2-H	157017 AY-DKB-S1-157017
	Red door handle for MGB-E...	156945 AY-DHL-R1-156945
	Red door knob for MGB-E...	157018 AY-DKB-R1-157018

Releases

Designation	Version	Order no.
Auxiliary key release 	Identical locking, including 2 keys	086236
	Identical locking, key can be removed only in <i>unlocked</i> position, including 2 keys	109212
	Unique locking, including 2 keys	084177
	Identical locking, key can only be removed in <i>locked</i> position, incl. 2 keys	121917
Replacement key Release 	2 keys, identical locking	099434
Emergency release 	Resetting	103110
Lead seal kit 	–	099877
	–	087256

MGB2
Modular

MGB2
Classic

Index by item designation

Item	Order no.	Page	Item	Order no.	Page
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AC-MC-SA-F-A-157029	157029	67	MGB-A-PLATESET-NN01-114529	114529	70
AC-MC-SB-F-A-157028	157028	62	MGB-E-A-100465	100465	20
AC-MC-SB-F-A-161345	161345	67	MGB-E-A-100465	100465	48
AC-MC-SB-F-B-157025	157025	62	MGB-E-A7-117126	117126	20
AC-MC-SB-MA-157024	157024	62	MGB-E-A7-117126	117126	48
AC-MC-SI-F-A-157030	157030	67	MGB2-H-BA1A1-L-156396	156396	18
AY-DHL-R1-156945	156945	70	MGB2-H-BA1A1-L-156396	156396	46
AY-DHL-S1-156944	156944	70	MGB2-H-BA1A1-R-137617	137617	18
AY-DKB-R1-157018	157018	70	MGB2-H-BA1A1-R-137617	137617	46
AY-DKB-S1-157017	157017	70	MGB2-H-BA1A3-L-156394	156394	18
AY-ERS-250-106761	106761	70	MGB2-H-BA1A3-L-156394	156394	46
AY-SET-LNS-0001-120344	120344	70	MGB2-H-BA1A3-R-136691	136691	18
AY-SET-LNS-0002-120378	120378	70	MGB2-H-BA1A3-R-136691	136691	46
AY-SET-LNS-SY01-120377	120377	70	MGB2-H-BA1A5-L-157020	157020	18
AY-SET-LNS-SY02-125359	125359	70	MGB2-H-BA1A5-L-157020	157020	46
AY-SET-LNS-SY03-126158	126158	70	MGB2-H-BA1A5-R-157019	157019	18
C-M12F05-05X034PU05,0-M12M05-119932	119932	62	MGB2-H-BA1A5-R-157019	157019	46
C-M12F05-05X034PU10,0-M12M05-119947	119947	62	MGB2-H-BA1A8-L-157022	157022	18
C-M12F05-05X034PU20,0-M12M05-119971	119971	62	MGB2-H-BA1A8-L-157022	157022	46
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C-M23F19-19XDIFPU01,5-MA-092906	092906	66	MGB2-H-BA1A8-R-157021	157021	46
C-M23F19-19XDIFPU01,5-MA-092907	092907	66	MGB2-L1-BR-M-X0000-BJ-161027	161027	42
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C-M23F19-19XDIFPU03,0-MA-092909	092909	66	MGB2-L1-BR-U-X0000-BX-136774	136774	42
C-M23F19-19XDIFPU06,0-MA-077014	077014	65	MGB2-L1-BR-U-XB2S0-DB-R-158394	158394	56
C-M23F19-19XDIFPU06,0-MA-077018	077018	66	MGB2-L1-BR-U-XB2S1-DY-R-160748	160748	56
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C-M23F19-19XDIFPU08,0-MA-077015	077015	65	MGB2-L1-MLIU-YA4A4-BAR-136797	136797	16
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C-M23F19-19XDIFPU15,0-MA-077016	077016	65	MGB2-L1HB-PN-U-S3-D-R-156388	156388	30
C-M23F19-19XDIFPU15,0-MA-077020	077020	66	MGB2-L1HB-PN-U-S4-D-L-156387	156387	30
C-M23F19-19XDIFPU15,0-MA-085196	085196	66	MGB2-L1HB-PN-U-S4-D-R-156386	156386	30
C-M23F19-19XDIFPU20,0-MA-092726	092726	65	MGB2-L2-BR-M-X0000-BJ-161029	161029	42
C-M23F19-19XDIFPU20,0-MA-092910	092910	66	MGB2-L2-BR-M-X0000-BX-161023	161023	42
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C-M12F05-05X034PU1,0-M12M05	159355	64	MGB2-L2HB-PN-U-S3-D-L-156391	156391	31
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Representatives

International

Austria

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

Benelux

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

Brazil

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

Canada

EUCHNER Canada Inc.
2105 Fasan Drive
Oldcastle, ON NOR 1L0
Tel. +1 519 800-8397
Fax +1 519 737-0314
sales@euchner.ca

China

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

Czech Republic

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

Denmark

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

Estonia

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

Finland

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

France

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

Hungary

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

India

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

Israel

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

Italy

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

Japan

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

Korea

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

Mexico

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

Poland

EUCHNER Sp. z o.o.
Krańskięskiego 29
40-019 Katowice
Tel. +48 32 252 20 15
Fax +48 32 252 20 13
info@euchner.pl

Portugal

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

Republic of South Africa

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

Romania

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

Singapore

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

Slovakia

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

Slovenia

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

Spain

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

Sweden

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

Switzerland

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

Taiwan

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

Turkey

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

United Kingdom

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

USA

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

EUCHNER USA Inc.

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

Germany

Augsburg

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

Berlin

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

Chemnitz

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

Düsseldorf

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

Essen

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

Freiburg

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

Lübeck

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

Nürnberg

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

Stuttgart

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

Wiesbaden

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

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Germany
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Fax +49 711 753316
info@euchner.de
www.euchner.com

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