

# Multifunctional Gate Box MGBS *Slimline*



**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



|   |  |           |                      |
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## The slimline safety door protection device MGBS

- Transponder-coded safety switch, door handle and end stop in one
- Space-saving design
- Handle module for intuitive operation



### Multifunctional Gate Box MGBS

This is the ideal solution wherever a slimline switch housing is advantageous, such as on safety fence corner posts.

Concealed mounting holes in the handle module and other modules provide excellent protection against tampering. A lockout mechanism is included in the handle module. This prevents the installation from starting, e.g. during maintenance and cleaning work. A simple plug connection reduces wiring work.

The system is optionally available with an emergency stop device and with controls and indicators. The resulting MGBS is a slimline safety door protection device with the properties of an MGB.

Thanks to the transponder technology, the system achieves category 4 / PL e according to EN ISO 13849-1 without additional fault exclusion. The MGBS complies with all the requirements of EN ISO 14119.

A locking force of 3,900 N is achieved with locking modules. In addition, the degrees of protection IP65, IP67 and IP69K make the MGBS an all-rounder for demanding environments.

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### System family AP

**AP** The system family AP is intended to be used for separate operation. The devices are particularly suitable for the connection of safety evaluation units and safety control systems that require short test pulses.

The AP devices generate test pulses on the safety outputs for short circuit monitoring. Due to the little wiring work, AP devices represent a low-cost solution.

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### System family AR

**AR** In the AR version up to 20 devices belonging to the AR system family can be connected in series. The AR devices generate test pulses on the safety outputs for short circuit monitoring.

With this device, safety and status signals are collected together in the field and forwarded to the control system.



## System components at a glance

### Locking module MGBS – guard locking for the protection of persons and processes

The MGBS locking module is available in different versions for process protection guard locking or personnel protection guard locking. It can be mounted on left- or right-hinged doors and on sliding doors.

The system is optionally available with an emergency stop device and with controls and indicators. The resulting MGBS is a slimline safety door protection device with the properties of an MGB.

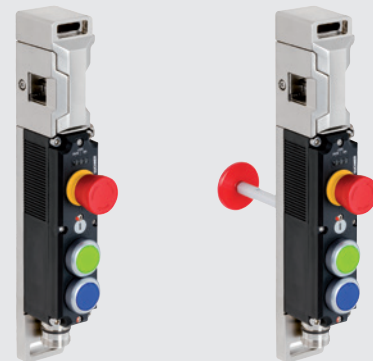
### Interlocking module MGBS

The MGBS is also available as an interlocking module (without guard locking).

### Individual MGBS module

Without escape release

With escape release



### Handle module MGBS

The handle module is available for doors hinged on the right or for doors hinged on the left.

The bolt tongue of the handle module is reliably detected by a transponder as soon as it is fully inserted into the locking module or interlocking module. For cleaning and service on the machine, the bolt tongue can be locked with max. 3 padlocks using the automatically extending lockout mechanism. The MGBS additionally features a robust door handle that can be rotated in 90° steps. As an alternative to the door handle, the handle module can also be equipped or retrofitted with a door knob.

### Handle module MGBS



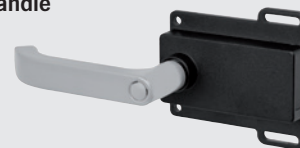
### Inner door handle

In combination with a locking module with escape release, the safety system must be equipped with an inner door handle. It enables people shut in to open the locked door from the danger zone.

### Escape release

In combination with an interlocking module, the safety system can be equipped with an MGB-E-A... escape release. This feature makes it possible to open the locked door from the danger zone.

### Inner door handle



### Escape release MGB-E-A...



## Example for the combination of the MGBS

Handle module MGBS-H  
with door handle  
**157543**  
(see page 22)

Locking module MGBS-P  
with emergency stop, two illuminated push-  
buttons and plug connector M23  
**159171**  
(see page 14)





## »Maximum safety in the smallest possible space.«

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- ▶ Suitable for tight spaces, e.g. for corner solutions
- ▶ Several functions in one solution: door handle, switch, door stop
- ▶ Optionally with emergency stop, controls and indicators
- ▶ Optionally with escape release
- ▶ Category 4 / PL e according to EN ISO 13849-1

# MGBS

With guard locking



Locking module



MGBS-PL



Handle module



MGBS-H



Inner door handle



AE-R

With interlocking without guard locking

Interlocking module



MGBS-P-I



Handle module



MGBS-H



Escape release



MGB-E

**Locking modules MGBS-P-L.-AP-...**



- ▶ Locking module for the protection of persons or processes (order handle module separately)
- ▶ Optionally with control elements, emergency stop and escape release
- ▶ 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

**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.

**Auxiliary release**

Included with all versions as standard.

**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.

**Escape release (optional)**

Some devices have an escape release. The escape release can be extended with the aid of the support brackets supplied.

**LED indicator**

- STATE** Status
- LOCK** Guard locking
- DIA** Diagnostics

**Additional connections**




- OD** Door monitoring output
- OI** Diagnostic output

**Further information**

- ▶ Dimension drawings see p. 11
- ▶ Accessories and spare parts see p. 36
- ▶ For detailed information, enter the order number for the product in the search box at [www.euchner.com](http://www.euchner.com).

**Ordering table**


**MGBS-P-L.-AP-...-SA-... with plug connector M12**

| Version   | Coding<br>U = unicode | Escape re-lease | Door stop<br>(factory setting) | Controls/indicators |          |          | For wiring diagram see page 12 | Order no./item                                 |
|---|-----------------------|-----------------|--------------------------------|---------------------|----------|----------|--------------------------------|--|
|   |                       |                 |                                | S1                  | S2 / H2* | S3 / H3* |                                |  |
| <b>M12 8 pin</b><br><b>MGBS-P-L1</b><br>Closed-circuit current principle            |                       |                 |                                |                     |          |          |                                |  |
|  | U                     | ●               | Right                          | -                   | -        | -        | <b>A</b>                       | <b>158320</b><br>MGBS-P-L1-AP-U-R-AE-SA-158320 |
|  | U                     | -               | Right                          | -                   | -        | -        |                                | <b>159366</b><br>MGBS-P-L1-AP-U-R-AZ-SA-159366 |
| <b>MGBS-P-L2</b><br>Open-circuit current principle                                  |                       |                 |                                |                     |          |          |                                |  |
|  | U                     | ●               | Right                          | -                   | -        | -        | <b>A</b>                       | <b>163900</b><br>MGBS-P-L2-AP-U-R-AZ-SA-163900 |

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

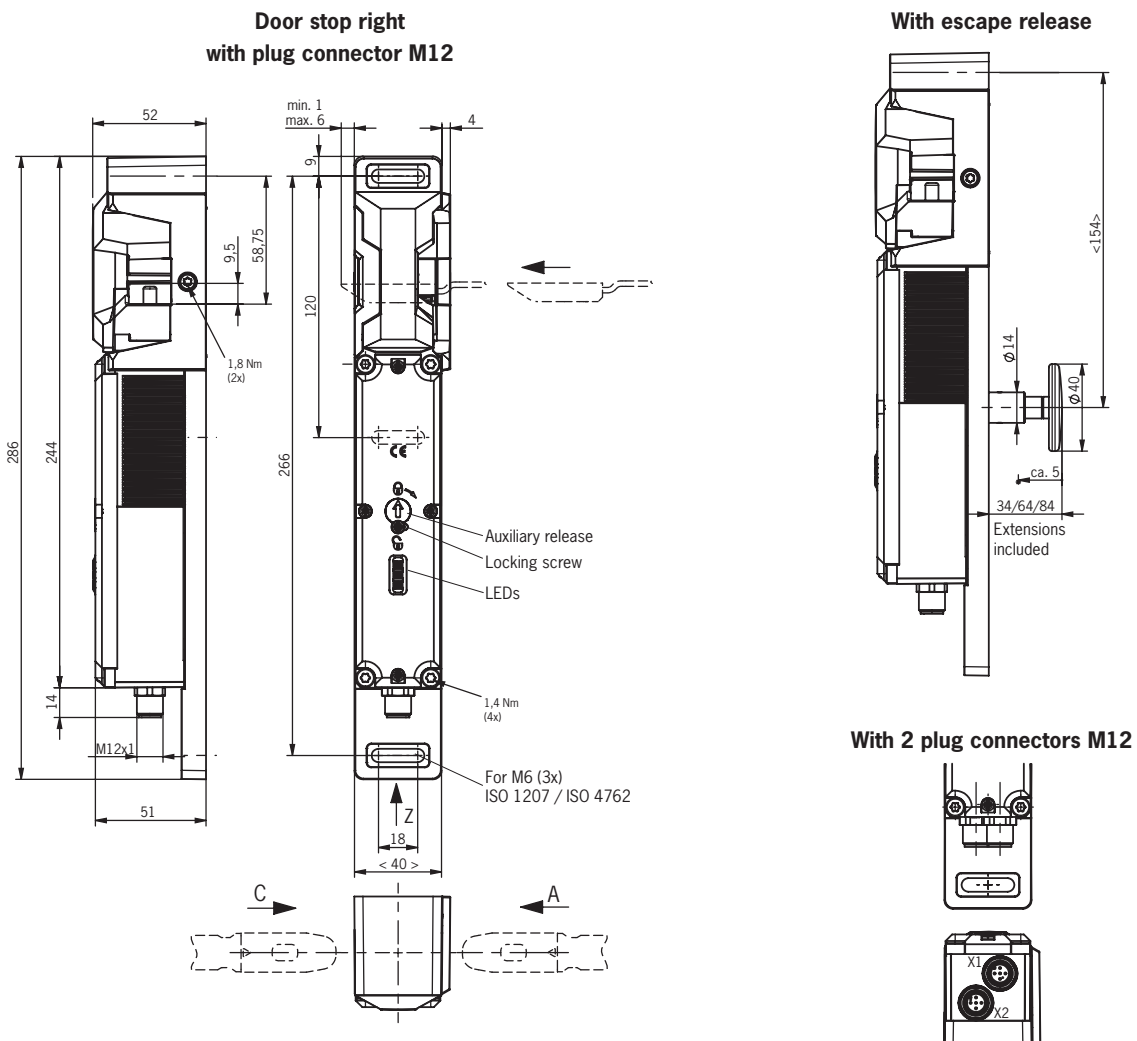
# MGBS-P-L-AP

**MGBS-P-L-AP-...-SII-... with 2 plug connectors M12**

| Version   | Coding<br>U = unicode | Escape re-<br>lease | Door stop<br>(factory<br>setting) | Controls/indicators |          |          | For wiring<br>diagram see<br>page 12 | Order no./item                                  |
|---|-----------------------|---------------------|-----------------------------------|---------------------|----------|----------|--------------------------------------|---|
|   |                       |                     |                                   | S1                  | S2 / H2* | S3 / H3* |                                      |   |
| <b>MGBS-P-L1</b><br>Closed-circuit current<br>principle                           |                       |                     |                                   |                     |          |          |                                      |   |
|  | U                     | ●                   | Right                             | -                   | -        | -        | <b>B</b>                             | <b>161694</b><br>MGBS-P-L1-AP-U-R-AE-SII-161694 |
|   | U                     | -                   | Right                             | -                   | -        | -        |                                      | <b>161693</b><br>MGBS-P-L1-AP-U-AZ-SII-161693   |

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

## Dimension drawing





**Terminal assignment**

**A** **M12** **8 pin** **Wiring diagram A**

| Pin | Designation | Function   |
|-----|-------------|--|
| 1   | IMP         | Operating voltage of guard locking solenoid, DC 24 V |
| 2   | UB          | Operating voltage of AP electronics, DC 24 V         |
| 3   | FO1A        | Safety output, channel 1                             |
| 4   | FO1B        | Safety output, channel 2                             |
| 5   | OI          | Diagnostic output                                    |
| 6   | OD          | Door monitoring output                               |
| 7   | 0V          | Operating voltage of AP electronics, DC 0 V          |
| 8   | IMM         | Operating voltage of guard locking solenoid, DC 0 V  |

**B** **2x M12** **5 pin** **Wiring diagram B**

| Pin  | Designation | Function   |
|------|-------------|--|
| X1.1 | UB          | Operating voltage of AP electronics, DC 24 V         |
| X1.2 | FO1A        | Safety output, channel 1                             |
| X1.3 | 0V          | Operating voltage of AP electronics, DC 0 V          |
| X1.4 | FO1B        | Safety output, channel 2                             |
| X1.5 | -           | Not used   |
| X2.1 | -           | Not used   |
| X2.2 | -           | Not used   |
| X2.3 | IMM         | Operating voltage of guard locking solenoid, DC 0 V  |
| X2.4 | IMP         | Operating voltage of guard locking solenoid, DC 24 V |
| X2.5 | -           | Not used   |



# MGBS-P-L-AP

**Locking modules MGBS-P-L.-AR-...**



- ▶ Locking module for the protection of persons or processes (order handle module separately)
- ▶ Optionally with control elements, emergency stop and escape release
- ▶ 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

**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.

**Auxiliary release**

Included with all versions as standard.

**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.

**Escape release (optional)**

Some devices have an escape release. The escape release can be extended with the aid of the support brackets supplied.

**Lens set**

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

**LED indicator**

**STATE** Status  
**LOCK** Guard locking  
**DIA** Diagnostics

**Additional connections**

**OD** Door monitoring output  
**OI** Diagnostic output

**Further information**

- ▶ Dimension drawings see p. 15
- ▶ Accessories and spare parts see p. 36
- ▶ For detailed information, enter the order number for the product in the search box at [www.euchner.com](http://www.euchner.com).

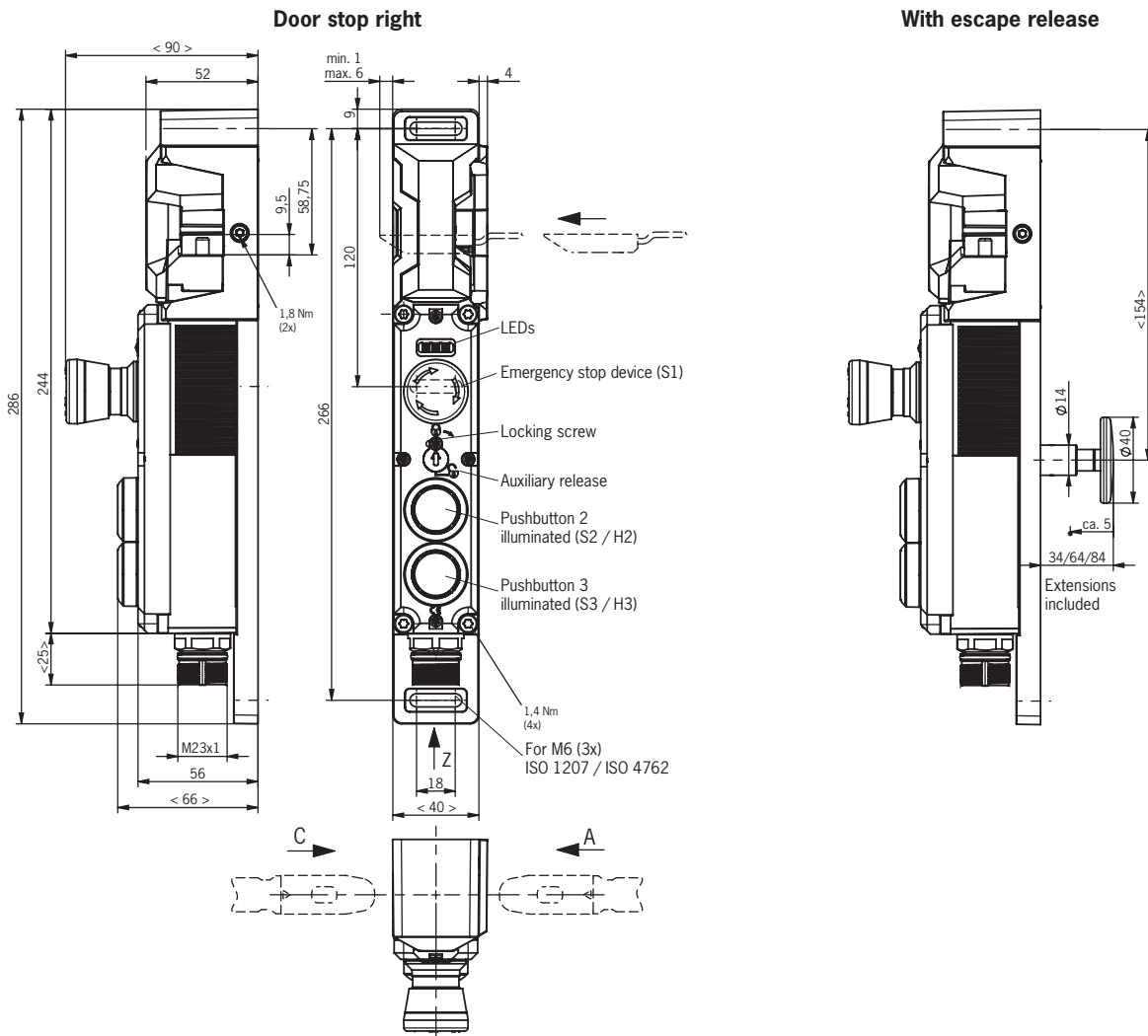
**Ordering table**

| Version  | Coding<br>U = unicode | Escape re-lease | Door stop<br>(factory setting) | Controls/indicators |          |          | For wiring diagram see page 16 | Order no./item                                  |
|--|-----------------------|-----------------|--------------------------------|---------------------|----------|----------|--------------------------------|---|
|  |                       |                 |                                | S1                  | S2 / H2* | S3 / H3* |                                |   |
| <b>M23</b> <b>19 pin</b>                             |                       |                 |                                |                     |          |          |                                |   |
| <b>MGBS-P-L1</b><br>Closed-circuit current principle |                       |                 |                                |                     |          |          |                                |   |
|  | U                     | ●               | Right                          |                     |          |          | <b>A</b>                       | <b>159086</b><br>MGBS-P-L1-AR-U-R-AEE-SH-159086 |
|  | U                     | -               | Right                          |                     |          |          |                                | <b>159171</b><br>MGBS-P-L1-AR-U-R-AZE-SH-159171 |
|  | U                     | ●               | Right                          | -                   |          |          |                                | <b>159170</b><br>MGBS-P-L1-AR-U-R-AEE-SH-159170 |
|  | U                     | -               | Right                          | -                   |          |          |                                | <b>159169</b><br>MGBS-P-L1-AR-U-R-AZE-SH-159169 |
|  | U                     | ●               | Right                          | -                   | -        |          |                                | <b>161206</b><br>MGBS-P-L1-AR-U-R-AEE-SH-161206 |
|  | U                     | -               | Right                          | -                   | -        |          |                                | <b>161205</b><br>MGBS-P-L1-AR-U-R-AZE-SH-161205 |
| <b>MGBS-P-L2</b><br>Open-circuit current principle   |                       |                 |                                |                     |          |          |                                |   |
|  | U                     | ●               | Right                          |                     |          |          | <b>A</b>                       | <b>161678</b><br>MGBS-P-L2-AR-U-R-AEE-SH-161678 |
|  | U                     | -               | Right                          |                     |          |          |                                | <b>158524</b><br>MGBS-P-L2-AR-U-R-AZE-SH-158524 |
|  | U                     | ●               | Right                          | -                   |          |          |                                | <b>161081</b><br>MGBS-P-L2-AR-U-R-AEE-SH-161081 |
|  | U                     | ●               | Right                          | -                   | -        | -        |                                | <b>B</b>  |

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

# MGBS-P-L-AR

**Dimension drawing**



**M23** **19 pin**

**Terminal assignment**

**M23** **19 pin** **Wiring diagram A**

| Pin | Designation | Function  |
|-----|-------------|---|
| 1   | IMP         | Operating voltage of guard locking solenoid, DC 24 V  |
| 2   | FI1A        | Enable input, channel 1   |
| 3   | FI1B        | Enable input, channel 2   |
| 4   | FO1A        | Safety output, channel 1  |
| 5   | FO1B        | Safety output, channel 2  |
| 6   | UB          | Operating voltage of AR electronics, DC 24 V, and controls/indicators, DC 24 V  |
| 7   | RST         | Reset input   |
| 8   | OD          | Door monitoring output  |
| 9   | OI          | Diagnostic output   |
| 10  | S1.A1       | Emergency stop (channel A) if present   |
| 11  | S1.A2       | Emergency stop (channel A) if present   |
| 12  | FE          | Function earth  |
| 13  | S1.B1       | Emergency stop (channel B) if present   |
| 14  | S1.B2       | Emergency stop (channel B) if present   |
| 15  | S2          | Pushbutton 2 (illuminated) if present   |
| 16  | H2          | LED 2 if present  |
| 17  | S3          | Pushbutton 3 (illuminated)  |
| 18  | H3          | LED 3   |
| 19  | 0V          | Operating voltage of AR electronics, DC 0 V, controls/indicators, DC 0 V, and operating voltage of guard locking solenoid, DC 0 V |

**M23** **19 pin** **Wiring diagram B**

| Pin | Designation | Function   |
|-----|-------------|--|
| 1   | IMP         | Operating voltage of guard locking solenoid, DC 24 V                           |
| 2   | FI1A        | Enable input, channel 1  |
| 3   | FI1B        | Enable input, channel 2  |
| 4   | FO1A        | Safety output, channel 1   |
| 5   | FO1B        | Safety output, channel 2   |
| 6   | UB          | Operating voltage of AR electronics, DC 24 V, and controls/indicators, DC 24 V |
| 7   | RST         | Reset input  |
| 8   | OD          | Door monitoring output   |
| 9   | OI          | Diagnostic output  |
| 10  | OL          | Emergency stop (channel A) if present  |
| 11  | -           | Emergency stop (channel A) if present  |
| 12  | FE          | Function earth   |
| 13  | -           | Emergency stop (channel B) if present  |
| 14  | -           | Emergency stop (channel B) if present  |
| 15  | -           | Pushbutton 2 (illuminated) if present  |
| 16  | -           | LED 2 if present   |
| 17  | -           | Pushbutton 3 (illuminated)   |
| 18  | IMM         | Operating voltage of guard locking solenoid, DC 0 V                            |
| 19  | 0V          | Operating voltage of AR electronics, DC 0 V, and controls/indicators, DC 0 V   |

# MGBS-P-L-AR

**Interlocking module MGBS-P-I-AP-...**



**Details**

**Available coding options**

- ▶ Unicode evaluation

**Door stop**

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

**LED indicator**

**STATE** Status  
**DIA** Diagnostics

**Additional connections**

**OD** Door monitoring output  
**OI** Diagnostic output

**Further information**

- ▶ Dimension drawings see p. 19
- ▶ Accessories and spare parts see p. 36
- ▶ For detailed information, enter the order number for the product in the search box at [www.euchner.com](http://www.euchner.com).

- ▶ Interlocking module without guard locking (order handle module separately)
- ▶ Optionally with control elements and emergency stop
- ▶ Door stop can be changed to right/left
- ▶ Category 4 / PL e

**Ordering table**

**MGBS-P-I-AP-...-SA-... with plug connector M12**

| Version<br><b>M12</b> <b>8 pin</b> | Coding<br>U = unicode | Door stop<br>(factory setting) | Controls/indicators |          |          | For wiring diagram see page 20 | Order no./item                                |
|------------------------------------|-----------------------|--------------------------------|---------------------|----------|----------|--------------------------------|---|
|                                    |                       |                                | S1                  | S2 / H2* | S3 / H3* |                                |   |
|                                    | U                     | Right                          | -                   | -        | -        | <b>A</b>                       | <b>162586</b><br>MGBS-P-I-AP-U-R-ZZ-SA-162586 |

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

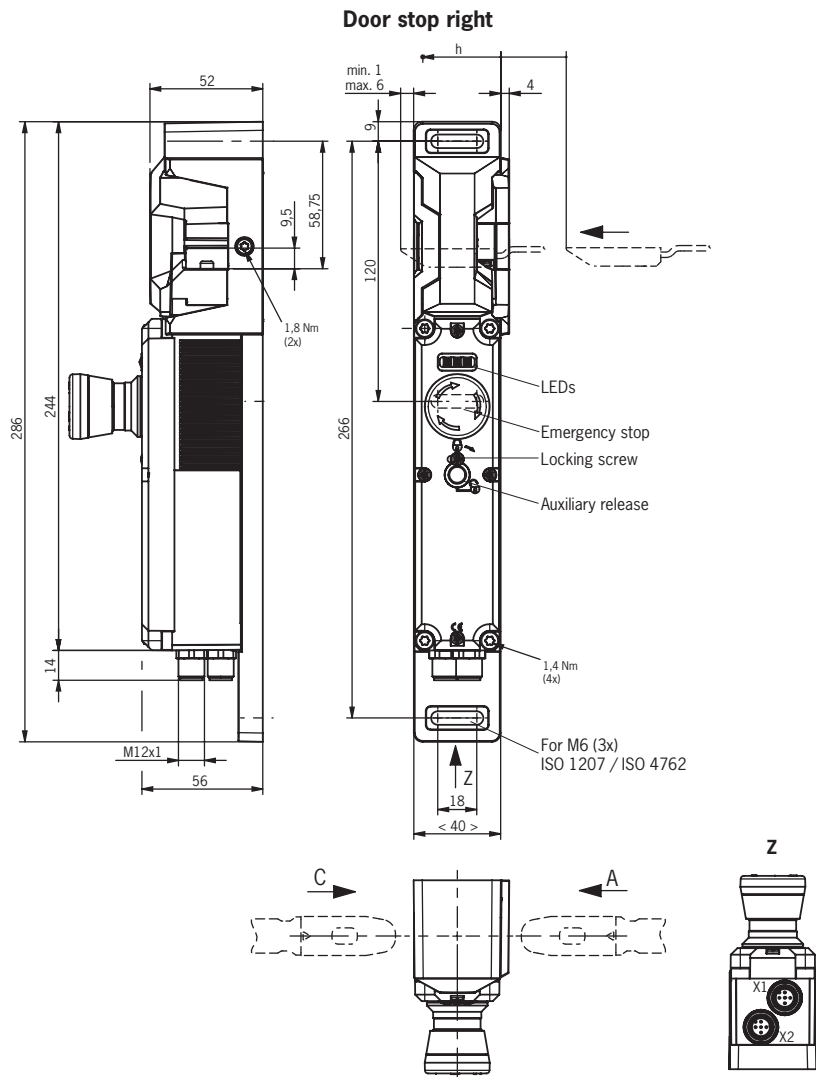
**MGBS-P-I-AP-...-SBB-... with 2 plug connectors M12**

| Version<br><b>2x M12</b> <b>5 pin</b> | Coding<br>U = unicode | Door stop<br>(factory setting) | Controls/indicators |          |          | For wiring diagram see page 20 | Order no./item                                  |
|---------------------------------------|-----------------------|--------------------------------|---------------------|----------|----------|--------------------------------|---|
|                                       |                       |                                | S1                  | S2 / H2* | S3 / H3* |                                |   |
|                                       | U                     | Right                          |                     | -        | -        | <b>B</b>                       | <b>162926</b><br>MGBS-P-I-AP-U-R-ZZE-SBB-162926 |

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

# MGBS-P-I-AP

**Dimension drawing**





## Terminal assignment

### A M12 8 pin Wiring diagram A

| Pin | Designation | Function                                     |
|-----|-------------|--|
| 1   | –           | Not used                                     |
| 2   | UB          | Operating voltage of AP electronics, DC 24 V |
| 3   | FO1A        | Safety output, channel 1                     |
| 4   | FO1B        | Safety output, channel 2                     |
| 5   | OI          | Diagnostic output                            |
| 6   | OD          | Door monitoring output                       |
| 7   | 0V          | Operating voltage of AP electronics, DC 0 V  |
| 8   | –           | Not used                                     |

### B 2x M12 5 pin Wiring diagram B

| Pin  | Designation | Function                                     |
|------|-------------|--|
| X1.1 | UB          | Operating voltage of AP electronics, DC 24 V |
| X1.2 | FO1A        | Safety output, channel 1                     |
| X1.3 | 0V          | Operating voltage of AP electronics, DC 0 V  |
| X1.4 | FO1B        | Safety output, channel 2                     |
| X1.5 | –           | Not used                                     |
| X2.1 | S1.A1       | Emergency stop (channel A) if present        |
| X2.2 | S1.B1       | Emergency stop (channel B) if present        |
| X2.3 | –           | Not used                                     |
| X2.4 | S1.A2       | Emergency stop (channel A) if present        |
| X2.5 | S1.B2       | Emergency stop (channel B) if present        |



# MGBS-P-I-AP

Handle modules MGBS-H...



- ▶ Intelligent bolt tongue with transponder
- ▶ Automatically extending lockout mechanism
- ▶ Door handle or door knob silver colored

**Details**

**Bolt tongue**

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

**Lockout mechanism (automatically extending)**

For cleaning and service on the machine, the bolt tongue can be locked with max. 3 padlocks using the automatically extending lockout mechanism. In this way the operation of the handle is prevented in the locked state.

**Door handle**

The MGBS has a robust door handle that can be rotated in 90° steps to suit all installations. The handle rotating direction is simple to adjust.



**Door knob**

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

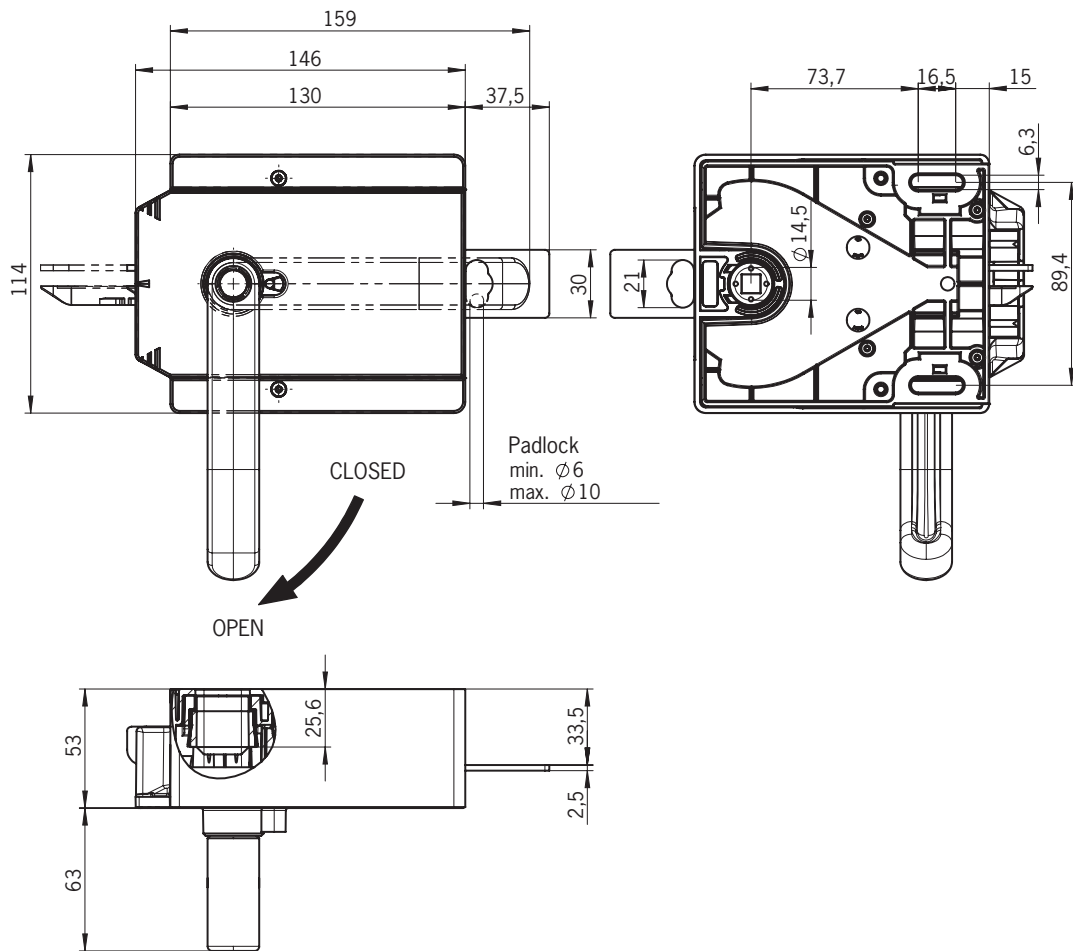
**Further information**

- ▶ Dimension drawings see p. 23
- ▶ Accessories and spare parts see p. 36
- ▶ For detailed information, enter the order number for the product in the search box at [www.euchner.com](http://www.euchner.com).

**Ordering table**

| Version   | Door handle | Door knob | Automatically extending lockout mechanism | Door stop (not adjustable) | Order no./item                         |
|---|-------------|-----------|---|----------------------------|--|
|  | ●           |           | ●   | Right                      | <b>157543</b><br>MGBS-H-BA1A3-R-157543 |
|  | ●           |           | ●   | Left                       | <b>157544</b><br>MGBS-H-BA1A3-L-157544 |

**Dimension drawing**



**Inner door handle AE-R-S1**



- ▶ **Only use in combination with locking module MGBS-P-L. with escape release**
- ▶ **Inner door handle silver colored**
- ▶ **A sticker describing the opening sequence is included with the locking module**
- ▶ **Extended actuation axis for thicker doors (order separately)**

**Details**

**Inner door handle**

In combination with a locking module with escape release, the safety system must be equipped with an inner door handle. It enables people shut in to open the locked door from the danger zone. 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.

**Door knob**

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

**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.

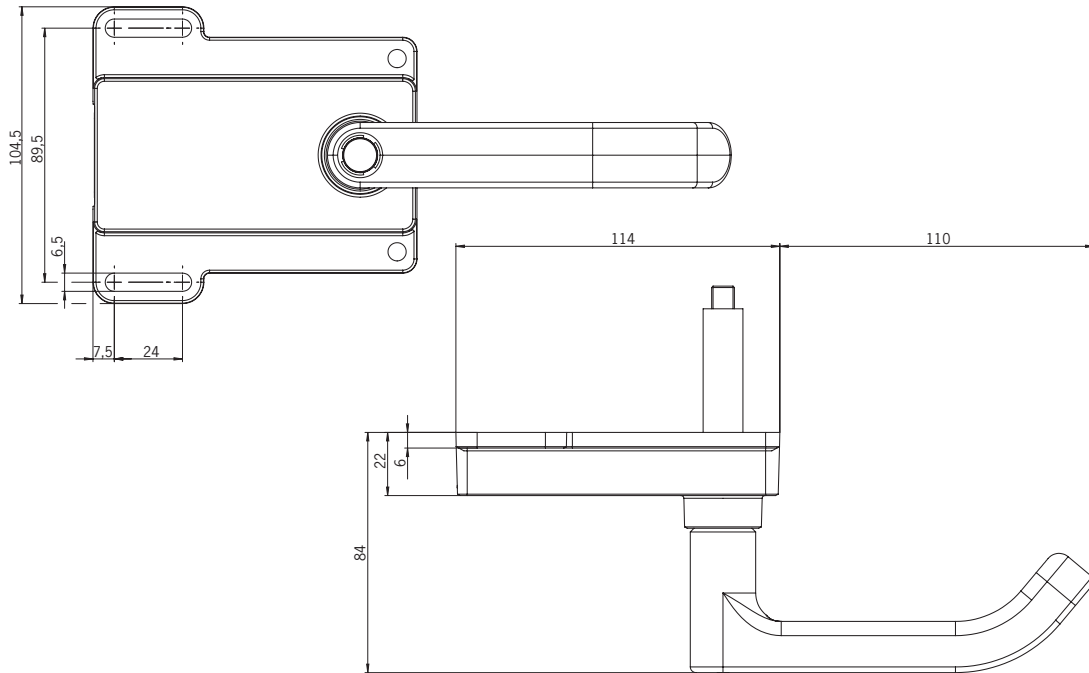
**Further information**

- ▶ Dimension drawings see p. 25
- ▶ Accessories and spare parts see p. 36
- ▶ For detailed information, enter the order number for the product in the search box at [www.euchner.com](http://www.euchner.com).

**Ordering table**

| Version | Door handle | Door knob | Order no./item                  |
|---------|-------------|-----------|---------------------------------|
|         | ●           |           | <b>158322</b><br>AE-R-S1-158322 |

**Dimension drawing**



**Escape releases MGB-E-...**



- ▶ Only use in combination with interlocking module MGBS-P-I.
- ▶ Red door handle or door knob
- ▶ Extended actuation axis for thicker doors (available optionally)

**Details**

**Escape release**

In combination with an interlocking module, the safety system can be equipped with an escape release MGB-E. This feature makes it possible to open the locked door from the danger zone. 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.

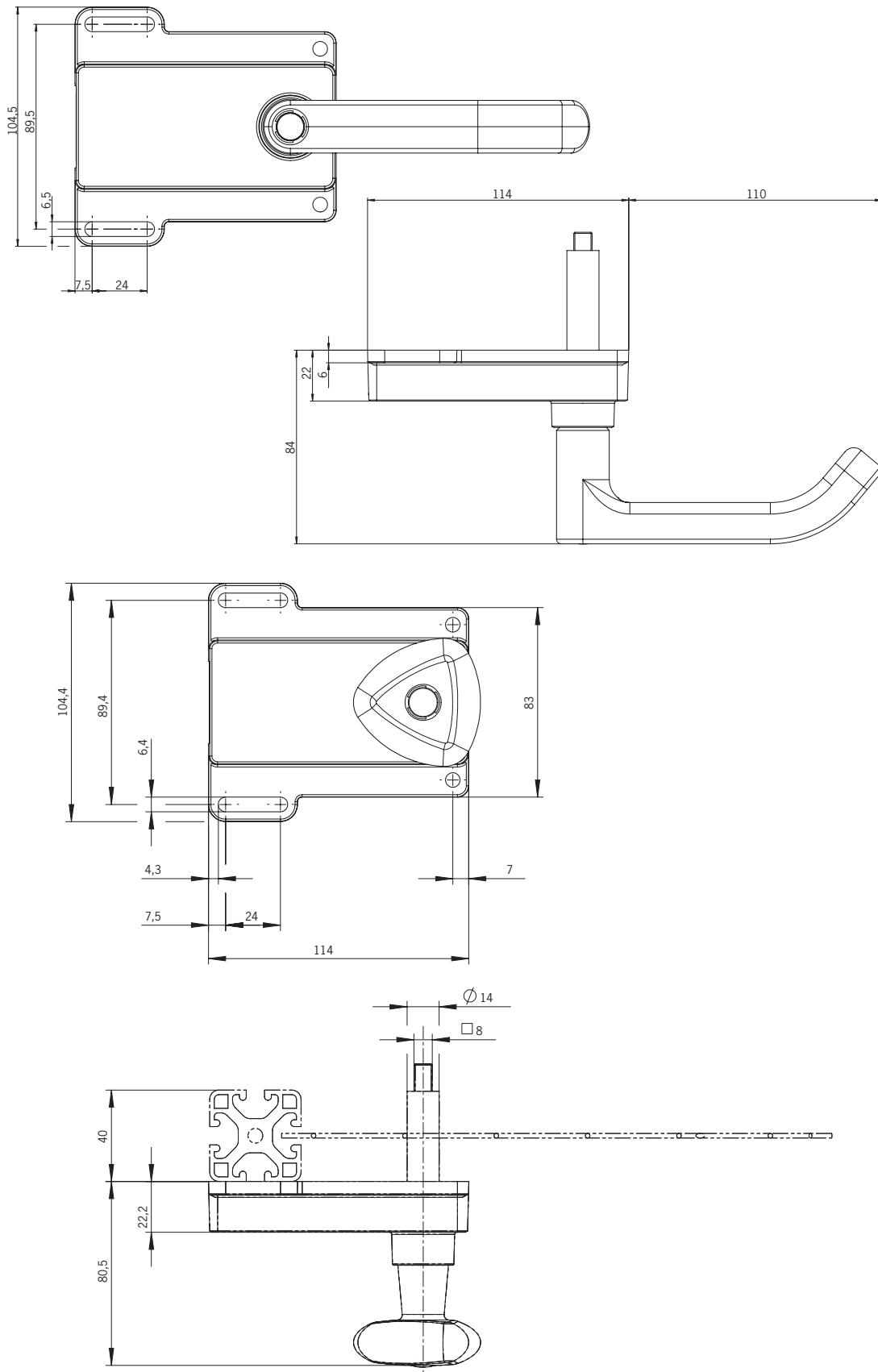
**Further information**

- ▶ Dimension drawings see p. 27
- ▶ Accessories and spare parts see p. 36
- ▶ For detailed information, enter the order number for the product in the search box at [www.euchner.com](http://www.euchner.com).

**Ordering table**

| Version | Door handle | Door knob | Order no./item                   |
|---------|-------------|-----------|----------------------------------|
|         | ●           |           | <b>100465</b><br>MGB-E-A-100465  |
|         |             | ●         | <b>117126</b><br>MGB-E-A7-117126 |

**Dimension drawing**



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

---

- ▶ Safety system with guard locking and integrated evaluation electronics including handle module
- ▶ Several functions in one solution: door handle, safety door protection, door stop, lockout mechanism
- ▶ Space-saving design
- ▶ Optionally with control elements, emergency stop and escape release
- ▶ Category 4 / PL e according to EN ISO 13849-1
- ▶ Integrated AP/AR electronics
- ▶ Door monitoring output
- ▶ Suitable for doors hinged on the right or left and for sliding doors



# MGBS

## Sets

Sets

Complete sets



MGBS

Locking sets MGBS-P-L.H.-AP-...



- ▶ Safety system with guard locking and integrated evaluation electronics including handle module
- ▶ Optionally with control elements, emergency stop and escape release
- ▶ Suitable for doors hinged on the right or left and for sliding doors

**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.

**Auxiliary release**

Included with all versions as standard.

**Escape release (optional)**

Some devices have an escape release. The escape release can be extended with the aid of the support brackets supplied.



**Lens set**

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

**Further information**

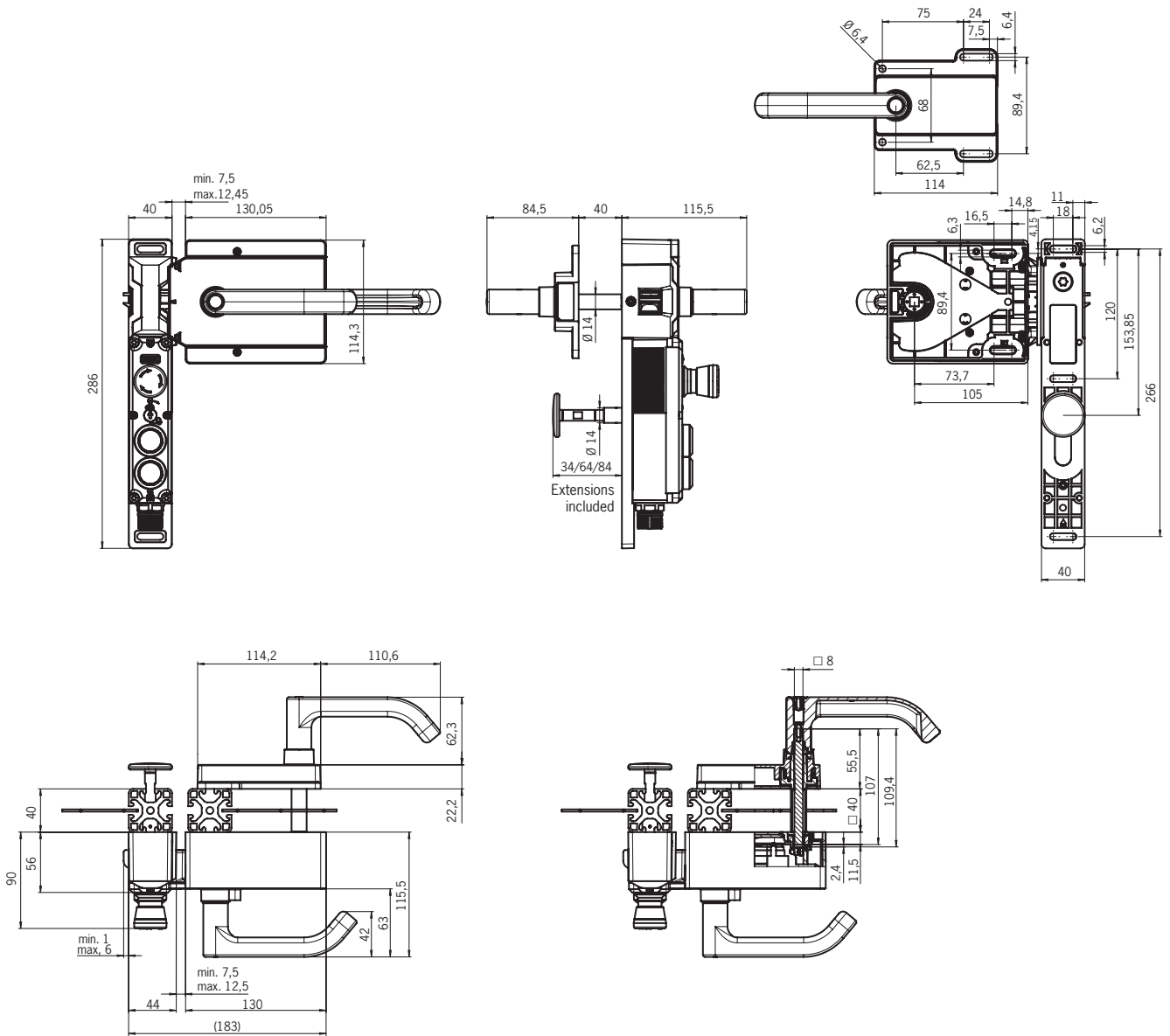
- ▶ Dimension drawings see p. 31
- ▶ Accessories and spare parts see p. 36
- ▶ For detailed information, enter the order number for the product in the search box at [www.euchner.com](http://www.euchner.com).

**Ordering table**

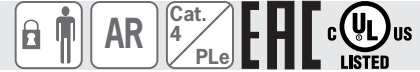
| Modules in the set  |                |       |                     |                |  |  |           | Ordering data, set                            |
|---|----------------|-------|---------------------|----------------|--|--|-----------|---|
| Version   | Locking module |       |                     | Escape release | Handle module<br>Order no. individual module | Inner door handle<br>Order no. individual module | Door stop | Order no./item                                |
|   | M12            | 8 pin | Controls/indicators |                |  |  |           |   |
|   |                | S1    | S2*                 | S3*            |  |  |           |   |
| <b>MGBS-P-L1</b><br>Closed-circuit current principle  |                |       |                     |                |  |  |           |   |
| <br>158320 | -              | -     | -                   | ●              | 157543                                       | 158322   | Right     | <b>161558</b><br>MGBS-P-L1HE-AP-U-R-SA-161558 |
|   | -              | -     | -                   | -              | 157544                                       | 158322   | Left      | <b>161559</b><br>MGBS-P-L1HE-AP-U-L-SA-161559 |
| <br>159366 | -              | -     | -                   | -              | 157543                                       | -  | Right     | <b>161565</b><br>MGBS-P-L1H-AP-U-R-SA-161565  |
|   | -              | -     | -                   | -              | 157544                                       | -  | Left      | <b>161567</b><br>MGBS-P-L1H-AP-U-L-SA-161567  |

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

**Dimension drawing**



Locking sets MGBS-P-L.H.-AR...



- ▶ Safety system with guard locking and integrated evaluation electronics including handle module
- ▶ Optionally with control elements, emergency stop and escape release
- ▶ Suitable for doors hinged on the right or left and for sliding doors

**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.

**Auxiliary release**

Included with all versions as standard.

**Escape release (optional)**

Some devices have an escape release. The escape release can be extended with the aid of the support brackets supplied.


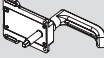







**Lens set**

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


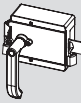
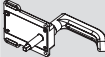















**Further information**

- ▶ Dimension drawings see p. 34
- ▶ Accessories and spare parts see p. 36
- ▶ For detailed information, enter the order number for the product in the search box at [www.euchner.com](http://www.euchner.com).

**Ordering table**

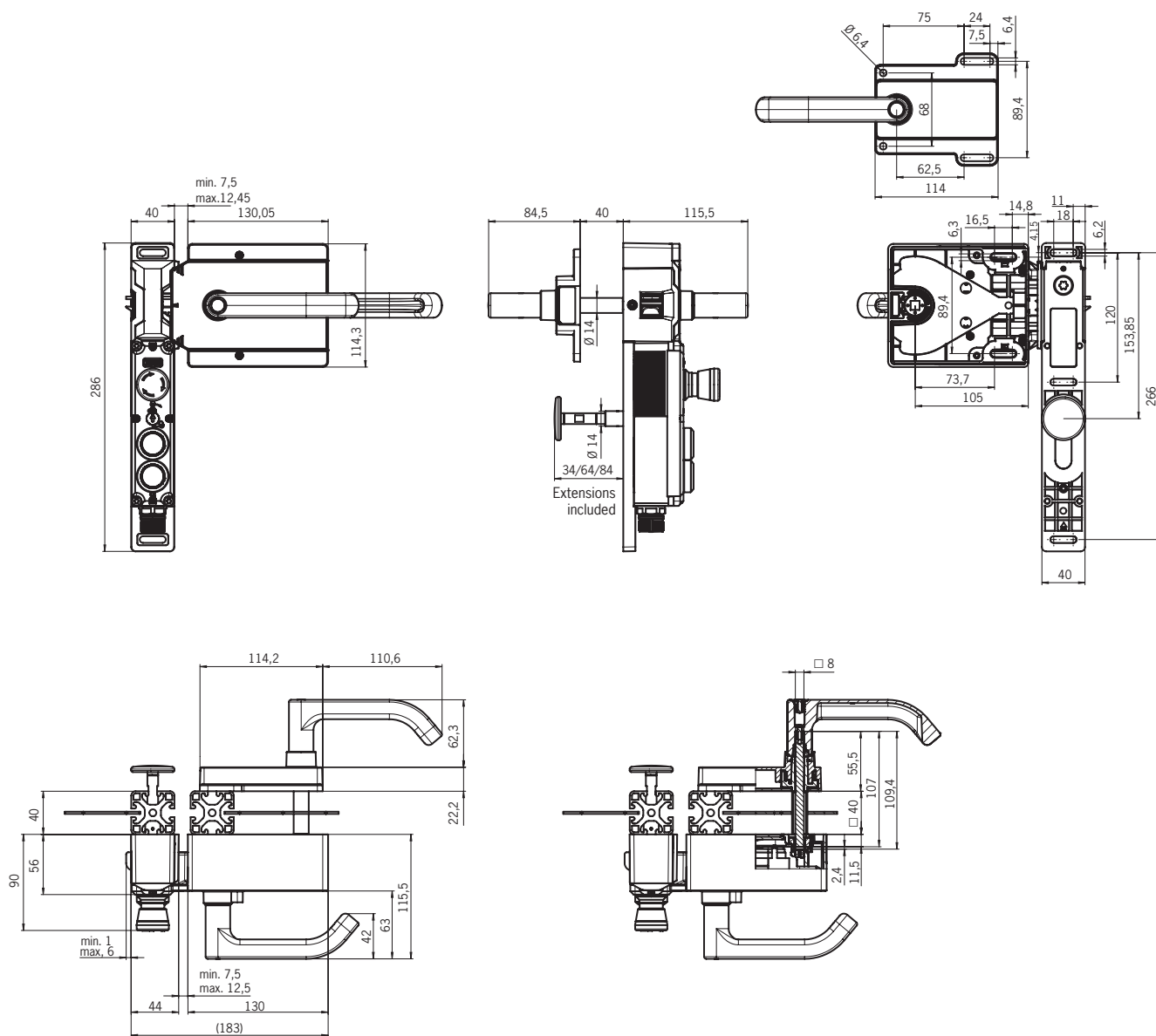
| Modules in the set  |   |   |   |                |  |  |           | Ordering data, set                            |
|---|---|---|---|----------------|--|--|-----------|---|
| Version   | Locking module  |   |   | Escape release | Handle module<br>Order no. individual module                                       | Inner door handle<br>Order no. individual module                                   | Door stop | Order no./item                                |
|   | S1  | S2*   | S3*   |                |  |  |           |   |
| <b>M23</b><br><b>19 pin</b>   |   |   |   |                |  |  |           |   |
| <b>MGBS-P-L1</b><br>Closed-circuit current principle  |   |   |   |                |  |  |           |   |
| <br>159086 |  |  |  | ●              | 157543   | 158322   | Right     | <b>160520</b><br>MGBS-P-L1HE-AR-U-R-SH-160520 |
|   |   |   |   |                | 157544   | 158322   | Left      | <b>160521</b><br>MGBS-P-L1HE-AR-U-L-SH-160521 |
| <br>159170 | -   |  |  | ●              | 157543   | 158322   | Right     | <b>160879</b><br>MGBS-P-L1HE-AR-U-R-SH-160879 |
|   |   |   |   |                | 157544   | 158322   | Left      | <b>161557</b><br>MGBS-P-L1HE-AR-U-L-SH-161557 |

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

| Modules in the set  |   |   |   |                |  |  |           | Ordering data, set                            |
|---|---|---|---|----------------|--|--|-----------|---|
| Version<br>  | Locking module  |   |   | Escape release | <br>Handle module<br>Order no.<br>individual module | <br>Inner door handle<br>Order no.<br>individual module | Door stop | Order no./item                                |
|   | S1  | S2*   | S3*   |                |  |  |           |   |
| <b>MGBS-P-L1</b><br>Closed-circuit current principle  |   |   |   |                |  |  |           |   |
| <br>159171   |    |    |    | -              | 157543   | -  | Right     | <b>161563</b><br>MGBS-P-L1H-AR-U-R-SH-161563  |
|   |   |   |   |                |  | 157544   | -         | Left  |
| <br>159169 | -   |  |  | -              | 157543   | -  | Right     | <b>161561</b><br>MGBS-P-L1H-AR-U-R-SH-161561  |
|   |   |   |   |                | 157544   | -  | Left      | <b>161562</b><br>MGBS-P-L1H-AR-U-L-SH-161562  |
| <b>MGBS-P-L2</b><br>Open-circuit current principle  |   |   |   |                |  |  |           |   |
| <br>161678 |  |  |  | ●              | 157543   | 158322   | Right     | <b>164688</b><br>MGBS-P-L2HE-AR-U-R-SH-164688 |
|   |   |   |   |                | 157544   | 158322   | Left      | <b>164689</b><br>MGBS-P-L2HE-AR-U-L-SH-164689 |
| <br>158524 |  |  |  | -              | 157543   | -  | Right     | <b>160522</b><br>MGBS-P-L2H-AR-U-R-SH-160522  |
|   |   |   |   |                | 157544   | -  | Left      | <b>160523</b><br>MGBS-P-L2H-AR-U-L-SH-160523  |

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

**Dimension drawing**





“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 PVC PUR

**Connecting cables with plug connector**

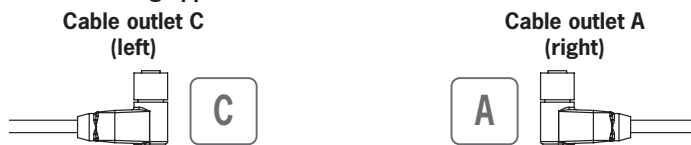
For the connection of:

MGBS AP

MGBS-P-L-AP...-SII...  
MGBS-P-I-AP...-SBB...



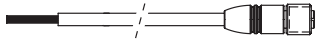
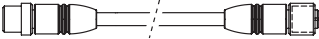
The following applies to the device installation orientation shown:



| Version  | Cable outlet | Order no./item                                       |
|--|--------------|--|
| <b>Connecting cable with female plug, flying lead, 5 x 0.34 mm<sup>2</sup></b><br>                         | 5m           | <b>100183</b><br>C-M12F05-05X034PV05,0-MA-100183     |
|  | 10m          | <b>100184</b><br>C-M12F05-05X034PV10,0-MA-100184     |
|  | 20m          | <b>100185</b><br>C-M12F05-05X034PV20,0-MA-100185     |
|  | 50m          | <b>156064</b><br>C-M12F05-05X034PV50,0-MA-156064     |
| <b>Extension, plug connectors at both ends</b><br>for connection to decentralized peripheral equipment<br> | 5m           | <b>100180</b><br>C-M12F05-05X034PV05,0-M12M05-100180 |
|  | 10m          | <b>100181</b><br>C-M12F05-05X034PV10,0-M12M05-100181 |
|  | 20m          | <b>100182</b><br>C-M12F05-05X034PV20,0-M12M05-100182 |
| <b>Connecting cable with female plug, flying lead, 5 x 0.25 mm<sup>2</sup></b><br>                         | 10m C        | <b>113190</b><br>C-M12F05-05X025PU10,0-MA-113190     |
|  | 10m A        | <b>113187</b><br>C-M12F05-05X025PU10,0-MA-113187     |
| <b>Extension, plug connectors at both ends</b><br>for connection to decentralized peripheral equipment<br> | 10m C        | <b>115566</b><br>C-M12F05-05X025PU10,0-M12M05-115566 |
|  | 10m A        | <b>115565</b><br>C-M12F05-05X025PU10,0-M12M05-115565 |

M12  
5 pin  
PVC

M12  
5 pin  
PUR

| Version  |   | Cable outlet | Order no./item |  |
|--|---|--------------|----------------|--|
| <div style="display: flex; flex-direction: column; align-items: center;"> <div style="border: 1px solid black; border-radius: 5px; padding: 2px 5px; margin-bottom: 5px;">M12</div> <div style="border: 1px solid black; border-radius: 5px; padding: 2px 5px; margin-bottom: 5px;">5 pin</div> <div style="border: 1px solid black; border-radius: 5px; padding: 2px 5px;">PUR</div> </div> | <b>Connecting cable with female plug, flying lead, 5 x 0.34 mm<sup>2</sup></b><br>                         | 5m           | -              | <b>113620</b><br>C-M12F05-05X034PU05,0-MA-113620     |
|  |   | 10m          | -              | <b>113640</b><br>C-M12F05-05X034PU10,0-MA-113640     |
|  |   | 20m          | -              | <b>113682</b><br>C-M12F05-05X034PU20,0-MA-113682     |
|  |   | 30m          | -              | <b>122784</b><br>C-M12F05-05X034PU30,0-MA-122784     |
|  | <b>Extension, plug connectors at both ends</b><br>for connection to decentralized peripheral equipment<br> | 5m           | -              | <b>119932</b><br>C-M12F05-05X034PU05,0-M12M05-119932 |
|  |   | 10m          | -              | <b>119947</b><br>C-M12F05-05X034PU10,0-M12M05-119947 |
|  |   | 20m          | -              | <b>119971</b><br>C-M12F05-05X034PU20,0-M12M05-119971 |

M12 8 pin PVC PUR

For the connection of:

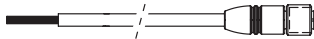
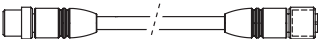
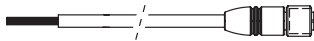
MGBS AP

MGBS-P-L-AP...-SA...  
MGBS-P-I-AP...-SA...



The following applies to the device installation orientation shown:



| Version   | Cable outlet  | Order no./item                                       |
|---|---|--|
| Connecting cable with female plug, flying lead, 8 x 0.25 mm <sup>2</sup><br> | 5m  | <b>100177</b><br>C-M12F08-08X025PV05,0-MA-100177     |
|   | 10m   | <b>100178</b><br>C-M12F08-08X025PV10,0-MA-100178     |
|   | 20m   | <b>100179</b><br>C-M12F08-08X025PV20,0-MA-100179     |
|   | 30m   | <b>115116</b><br>C-M12F08-08X025PV30,0-MA-115116     |
|   | 40m   | <b>156065</b><br>C-M12F08-08X025PV40,0-MA-156065     |
| Extension, plug connectors at both ends<br>                                  | 1m  | <b>123430</b><br>C-M12M08-08X025PV01,0-M12F08-123430 |
|   | 2m  | <b>123431</b><br>C-M12M08-08X025PV02,0-M12F08-123431 |
|   | 5m  | <b>123432</b><br>C-M12M08-08X025PV05,0-M12F08-123432 |
|   | 10m   | <b>123433</b><br>C-M12M08-08X025PV10,0-M12F08-123433 |
|   | Connecting cable with female plug, flying lead, 8 x 0.25 mm <sup>2</sup><br> | 5m   |
| 10m   |   | <b>115113</b><br>C-M12F08-08X025PU10,0-MA-115113     |
| 20m   |   | <b>115114</b><br>C-M12F08-08X025PU20,0-MA-115114     |
| 30m   |   | <b>115257</b><br>C-M12F08-08X025PU30,0-MA-115257     |

M12

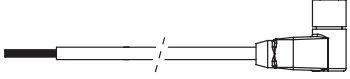
8 pin

PVC

M12

8 pin

PUR

| Version  |  | Cable outlet | Order no./item                                   |  |
|--|--|--------------|--|--|
| <div style="display: flex; flex-direction: column; align-items: center;"> <div style="border: 1px solid black; border-radius: 5px; padding: 2px 5px; margin-bottom: 2px;">M12</div> <div style="border: 1px solid black; border-radius: 5px; padding: 2px 5px; margin-bottom: 2px;">8 pin</div> <div style="border: 1px solid black; border-radius: 5px; padding: 2px 5px;">PUR</div> </div> | <p>Connecting cable with female plug,<br/>flying lead,<br/>8 x 0.25 mm<sup>2</sup></p>  | 10m          | C  | <b>113189</b><br>C-M12F08-08X025PU10,0-MA-113189 |
|  |  | A            | <b>113188</b><br>C-M12F08-08X025PU10,0-MA-113188 |  |
|  |  | 20m          | C  | <b>120999</b><br>C-M12F08-08X025PU20,0-MA-120999 |
|  |  | A            | <b>120998</b><br>C-M12F08-08X025PU20,0-MA-120998 |  |

**Connecting cables with straight plug connector**

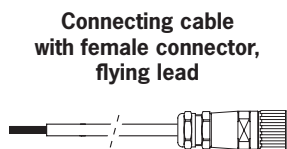
For the connection of:



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



| Version | Order no./item                                   |
|---------|--|
| 1,5m    | <b>092761</b><br>C-M23F19-19XDIFPU01,5-MA-092761 |
| 3m      | <b>092816</b><br>C-M23F19-19XDIFPU03,0-MA-092816 |
| 6m      | <b>077014</b><br>C-M23F19-19XDIFPU06,0-MA-077014 |
| 8m      | <b>077015</b><br>C-M23F19-19XDIFPU08,0-MA-077015 |
| 10m     | <b>092898</b><br>C-M23F19-19XDIFPU10,0-MA-092898 |
| 15m     | <b>077016</b><br>C-M23F19-19XDIFPU15,0-MA-077016 |
| 20m     | <b>092726</b><br>C-M23F19-19XDIFPU20,0-MA-092726 |
| 25m     | <b>092727</b><br>C-M23F19-19XDIFPU25,0-MA-092727 |
| 30m     | <b>095993</b><br>C-M23F19-19XDIFPU30,0-MA-095993 |
| 40m     | <b>102490</b><br>C-M23F19-19XDIFPU40,0-MA-102490 |



## Connecting cables with angled plug connector

For the connection of:

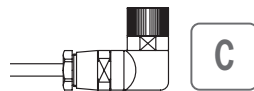


MGBS-P-L-AR...-SH...

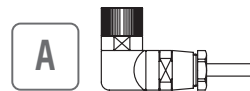


The following applies to the device installation orientation shown:

Cable outlet C  
(left)



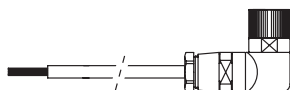
Cable outlet A  
(right)



| Version | Order no./item<br>Cable outlet                       |  |
|---------|--|--|
|         | C  | A  |
| 1,5m    | <b>092906</b><br>C-M23F19-19XDIFPU01,5-<br>MA-092906 | <b>092907</b><br>C-M23F19-19XDIFPU01,5-<br>MA-092907 |
| 3m      | <b>092908</b><br>C-M23F19-19XDIFPU03,0-<br>MA-092908 | <b>092909</b><br>C-M23F19-19XDIFPU03,0-<br>MA-092909 |
| 6m      | <b>077018</b><br>C-M23F19-19XDIFPU06,0-<br>MA-077018 | <b>085194</b><br>C-M23F19-19XDIFPU06,0-<br>MA-085194 |
| 8m      | <b>077019</b><br>C-M23F19-19XDIFPU08,0-<br>MA-077019 | <b>085195</b><br>C-M23F19-19XDIFPU08,0-<br>MA-085195 |
| 10m     | <b>092901</b><br>C-M23F19-19XDIFPU10,0-<br>MA-092901 | <b>092902</b><br>C-M23F19-19XDIFPU10,0-<br>MA-092902 |
| 15m     | <b>077020</b><br>C-M23F19-19XDIFPU15,0-<br>MA-077020 | <b>085196</b><br>C-M23F19-19XDIFPU15,0-<br>MA-085196 |
| 20m     | <b>092910</b><br>C-M23F19-19XDIFPU20,0-<br>MA-092910 | <b>092911</b><br>C-M23F19-19XDIFPU20,0-<br>MA-092911 |
| 25m     | <b>092912</b><br>C-M23F19-19XDIFPU25,0-<br>MA-092912 | <b>092913</b><br>C-M23F19-19XDIFPU25,0-<br>MA-092913 |



Female connector angled  
with cable,  
halogen-free



M23

19  
pin

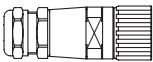
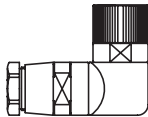
## Female connectors M23

For the connection of:



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







| Version  | Comment   | Order no.     |
|--|---|---------------|
| <b>Female connector straight</b><br>(for self-assembly)<br> | <b>EF</b><br>Female connector<br>For conductor cross-section<br>19 x 0.75 - 1 mm <sup>2</sup>   | <b>074616</b> |
|  | <b>EF-C1825</b><br>Female connector<br>For conductor cross-section<br>16 x 0.25 - 0.5 mm <sup>2</sup> + 3 x 0.75 - 1 mm <sup>2</sup>                      | <b>077025</b> |
| <b>Female connector angled</b><br>(for self-assembly)<br> | <b>WF</b><br>Female connector angled<br>For conductor cross-section<br>19 x 0.75 - 1 mm <sup>2</sup>  | <b>074617</b> |
|  | <b>WF-C1825</b><br>Female connector angled<br>For conductor cross-section<br>16 x 0.25 - 0.5 mm <sup>2</sup> + 3 x 0.75 - 1 mm <sup>2</sup>               | <b>077026</b> |
| <b>Replacement crimp contacts</b>  | For female connectors<br><b>EF</b> and <b>WF</b><br>Conductor cross-section<br>19 x 0.75 - 1 mm <sup>2</sup>  | <b>094309</b> |
|  | For female connectors<br><b>EF-C1825</b> and <b>WF-C1825</b><br>Conductor cross-section<br>16 x 0.25 - 0.5 mm <sup>2</sup> + 3 x 0.75 - 1 mm <sup>2</sup> | <b>094310</b> |

M23

19  
pin



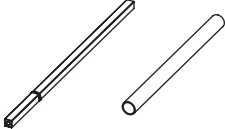

































**Miscellaneous accessories**

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

**MGBS** \*

\* **Notice:** Usable for the MGBS only if positions S1 and S2 are not assigned.

**Miscellaneous accessories**

|   | Version  | Order no./item   |   |
|---|--|--|---|
|  | Extended actuation axis for inner door handle<br>AE-R-S1, MGB-E... | <b>106761</b><br>AY-ERS-250-106761   |   |
|  | Replacement handle silver colored for<br>AE-R-S1 / MGBS-H          | <b>156944</b><br>AY-DHL-S1-156944  |   |
|   | Red door handle for MGB-E...                                       | <b>156945</b><br>AY-DHL-R1-156945  |   |
|  | Door knob silver colored for<br>AE-R-S1 / MGBS-H                   | <b>157017</b><br>AY-DKB-S1-157017  |   |
|   | Red door knob for MGB-E...   | <b>157018</b><br>AY-DKB-R1-157018  |   |
|  | Lens set, 6-piece,<br>5 colors                                     | 2 x WH  1 x BU  1 x YE <br>1 x GN  1 x RD   | <b>120344</b><br>AY-SET-LNS-0001-120344 |
|   | Lens set, 6-piece,<br>6 colors                                     | 1 x WH  1 x BU  1 x YE <br>1 x GN  1 x RD  1 x BK    | <b>120378</b><br>AY-SET-LNS-0002-120378 |
|   | Lens set labeled,<br>6-piece                                       | 1 x WH  1 x WH  1 x WH <br>1 x WH  1 x WH  1 x GN   | <b>120377</b><br>AY-SET-LNS-SY01-120377 |
|   | Lens set labeled,<br>15-piece                                      | 1 x WH  4 x BK <br>1 x WH  1 x WH  1 x WH <br>1 x WH  1 x WH  1 x WH <br>2 x WH  2 x WH  | <b>125359</b><br>AY-SET-LNS-SY02-125359 |
|   | Lens set labeled,<br>3-piece                                       | 1 x WH  1 x YE  1 x GN    | <b>126158</b><br>AY-SET-LNS-SY03-126158 |



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| 100465    | MGB-E-A-100465                      | 26   | 161561    | MGBS-P-L1H-AR-U-R-SH-161561         | 33   |
| 102490    | C-M23F19-19XDIFPU40,0-MA-102490     | 42   | 161562    | MGBS-P-L1H-AR-U-L-SH-161562         | 33   |
| 103110    |                                     | 45   | 161563    | MGBS-P-L1H-AR-U-R-SH-161563         | 33   |
| 106761    | AY-ERS-250-106761                   | 46   | 161564    | MGBS-P-L1H-AR-U-L-SH-161564         | 33   |
| 109212    |                                     | 45   | 161565    | MGBS-P-L1H-AP-U-R-SA-161565         | 30   |
| 113187    | C-M12F05-05X025PU10,0-MA-113187     | 38   | 161567    | MGBS-P-L1H-AP-U-L-SA-161567         | 30   |
| 113188    | C-M12F08-08X025PU10,0-MA-113188     | 41   | 161678    | MGBS-P-L2-AR-U-R-AEE-SH-161678      | 14   |
| 113189    | C-M12F08-08X025PU10,0-MA-113189     | 41   | 161693    | MGBS-P-L1-AP-U-R-AZ-SH-161693       | 11   |
| 113190    | C-M12F05-05X025PU10,0-MA-113190     | 38   | 161694    | MGBS-P-L1-AP-U-R-AE-SH-161694       | 11   |
| 113620    | C-M12F05-05X034PU05,0-MA-113620     | 39   | 162586    | MGBS-P-IAP-U-R-ZZ-SA-162586         | 18   |
| 113640    | C-M12F05-05X034PU10,0-MA-113640     | 39   | 162926    | MGBS-P-IAP-U-R-ZZE-SBB-162926       | 18   |
| 113682    | C-M12F05-05X034PU20,0-MA-113682     | 39   | 163900    | MGBS-P-L2-AP-U-R-AZ-SA-163900       | 10   |
| 115112    | C-M12F08-08X025PU05,0-MA-115112     | 40   | 164353    | MGBS-P-L2-AR-U-R-AE-SH-164353       | 14   |
| 115113    | C-M12F08-08X025PU10,0-MA-115113     | 40   | 164688    | MGBS-P-L2HE-AR-U-R-SH-164688        | 33   |
| 115114    | C-M12F08-08X025PU20,0-MA-115114     | 40   | 164689    | MGBS-P-L2HE-AR-U-L-SH-164689        | 33   |
| 115116    | C-M12F08-08X025PV30,0-MA-115116     | 40   |           |                                     |      |
| 115257    | C-M12F08-08X025PU30,0-MA-115257     | 40   |           |                                     |      |
| 115565    | C-M12F05-05X025PU10,0-M12M05-115565 | 38   |           |                                     |      |

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