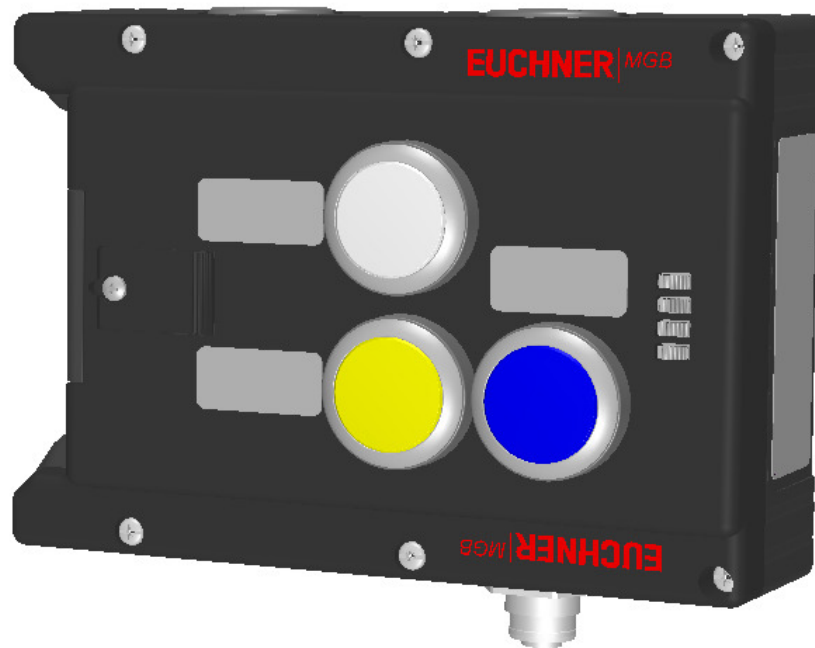


## ITEM 110547 MGB-L0-APA-AA6A1-S3-L-110547

Description	Technical data	Accessories	Downloads
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### Features

- › Locking (without guard locking)
- › 3 pushbuttons (illuminated, wh, ye, bu)
- › Incl. adhesive labels
- › With cable entry
- › With plug connector M12 for enabling switch
- › Unicode

### Guard locking type

**MGB-** The bolt tongue in the handle module is moved into and out of the **L0...** interlocking module by actuating the door handle. The door arm is not locked in the locked position.

### Door hinge

A mechanical door stop is permanently integrated into the evaluation module of the MGB. A marking on the stop makes adjustment easier.

### LED indicator

The LED indicator indicates all important system and status information.

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### Monitoring outputs

- OD** ON when the door is closed
- OT** Bolt tongue inserted in the evaluation module
- OI** Diagnostics; there is a fault

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### Pushbutton

- S2** 1 NO contact, white, illuminated
- S3** 1 NO contact, yellow, illuminated
- S4** 1 NO contact, blue, illuminated

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### Connection for enabling switch

The device has an M12 plug connector for the direct connection of an enabling switch (e.g. ZSA, order no.: 110560).

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### Adhesive labels

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

### Approvals



### Mechanical values and environment

Housing material	Reinforced plastic; die-cast zinc nickel-plated, stainless steel
Weight	Net 0,75 kg
Ambient temperature	At $U_B = 24V$ DC -20 ... 55 °C
Degree of protection	IP65
Mechanical life	$1 \times 10^6$
In case of use as door stop, and 1 Joule impact energy	$0,1 \times 10^6$
Installation position	Door hinge DIN left
Switching frequency	0,25 Hz
Connection	Plug connector SFF5 <sup>[1]</sup> Cable entries M20x1.5

## Electrical connection ratings

Utilization category according to EN 60947-5-2	DC-13	24V 200mA [2]
Rated insulation voltage $U_i$		30 V
Rated impulse withstand voltage $U_{imp}$		1,5 kV
Degree of contamination (external, according to EN 60947-1)		3
Connection cross-section		
(Rigid/flexible)		0,13 ... 1,5 mm <sup>2</sup>
(Rigid/flexible) with cable end sleeve according to DIN 46 228/1		0,25 ... 1,5 mm <sup>2</sup>
(Rigid/flexible) with cable end sleeve with collar according to DIN 46 228/1		0,25 ... 0,75 mm <sup>2</sup>
Safety class		III
Discrepancy time		
Between FO1A and FO1B		max.10 ms
Risk time according to EN 60947-5-3		max.350 ms
Transponder coding		Unicode
<b>Power supply <math>U_B</math></b>		
Operating voltage DC	$U_B$	24 V DC -15% ... 10% [3]
Current consumption	$I_{UB}$	max.80 mA [4]
<b>Power supply <math>U_A</math></b>		
Operating voltage DC	$U_A$	24 V DC -15% ... 10% [5]
Current consumption	$I_{UA}$	max.10 mA [6]
<b>Safety outputs FO1A, FO1B</b>		
Test pulses		max.0,3 ms
Test-pulse interval		min.100 ms
Type of output		Semiconductor outputs, p-switching, short circuit-proof
Output voltage		
$U_{FO1A} / U_{FO1B}$ HIGH		$U_B - 2V \dots U_B$ V DC [7]
$U_{FO1A} / U_{FO1B}$ LOW		0 ... 1 V DC
Output current		
Per safety output FO1A / FO1B		1 ... 200 mA
<b>Monitoring outputs OD, OT, OL, OI</b>		
Type of output		Semiconductor outputs, p-switching, short circuit-proof
Output voltage		$U_A - 2V \dots U_A$ V DC [8]
Output current		max.50 mA
<b>Controls and indicators</b>		
Switching voltage		$U_A$ V
Switching current		1 ... 10 mA
Breaking capacity		max.0,25 W

Power supply LED	24 V DC
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## Controls and indicators

Assignment diagram	L1
Control/indicator	
	<b>Position 2</b>
Version	Illuminated push buttons
Special features	
Color	white
Switching element	1NO
Control/indicator	
	<b>Position 3</b>
Version	Illuminated push buttons
Special features	
Color	Yellow
Switching element	1NO
Control/indicator	
	<b>Position 4</b>
Version	Illuminated push buttons
Special features	
Color	Blue
Switching element	1NO

## Miscellaneous

Product version number	V3.0.0
Slide-in label	
	3 pc. without marking
	Automatik Start
	Zutritt Anforderung
	Störung Quittieren
	Automatic Start
	Access Request
	Failure Reset

## Reliability values acc. to EN ISO 13849-1

	<b>Monitoring of the position of the safety guard</b>
Category	4
Performance Level	PL e
PFH <sub>D</sub>	$3.7 \times 10^{-9}$
Mission time	20 y

[1] X7

[2] Caution: outputs must be protected with a free-wheeling diode in case of inductive loads.

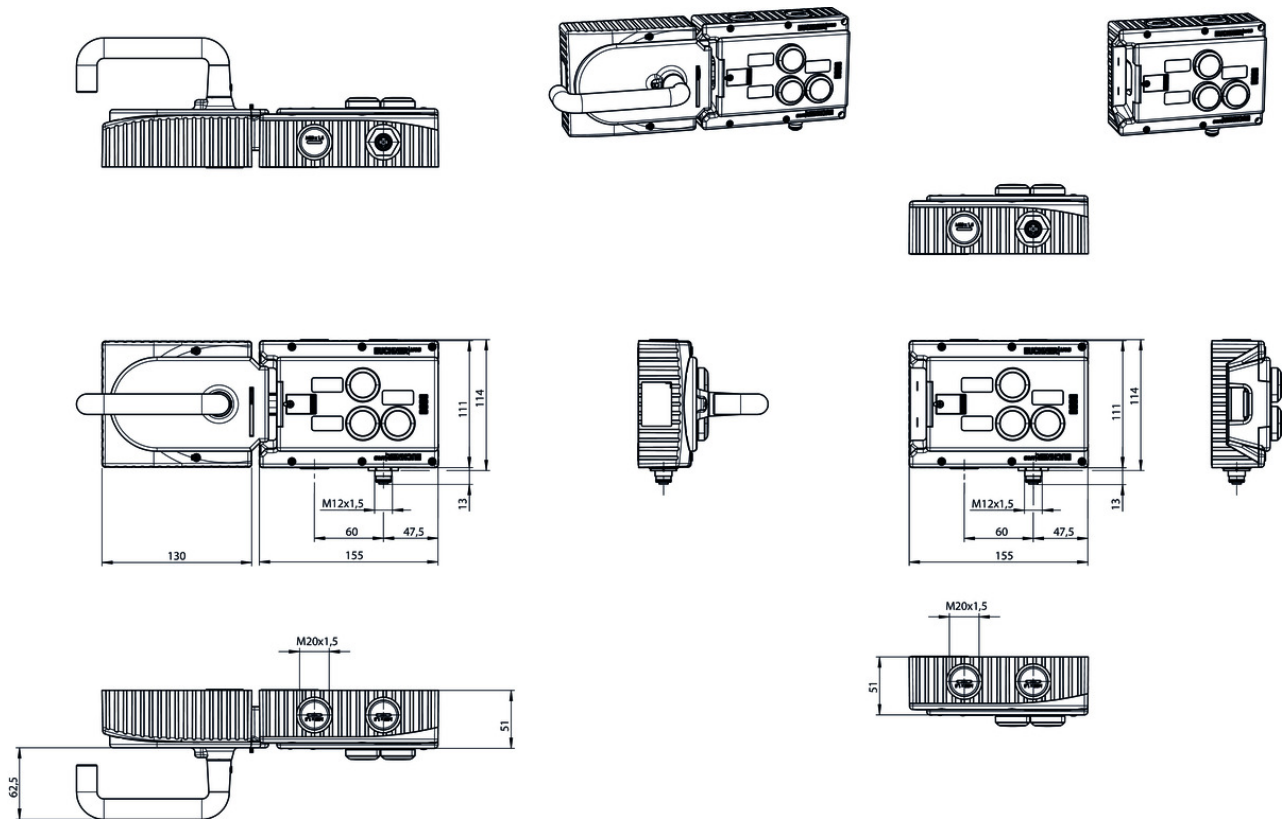
[3, 5] (Reverse polarity protected, regulated, residual ripple <5%, PELV)

[4] (no load on outputs)

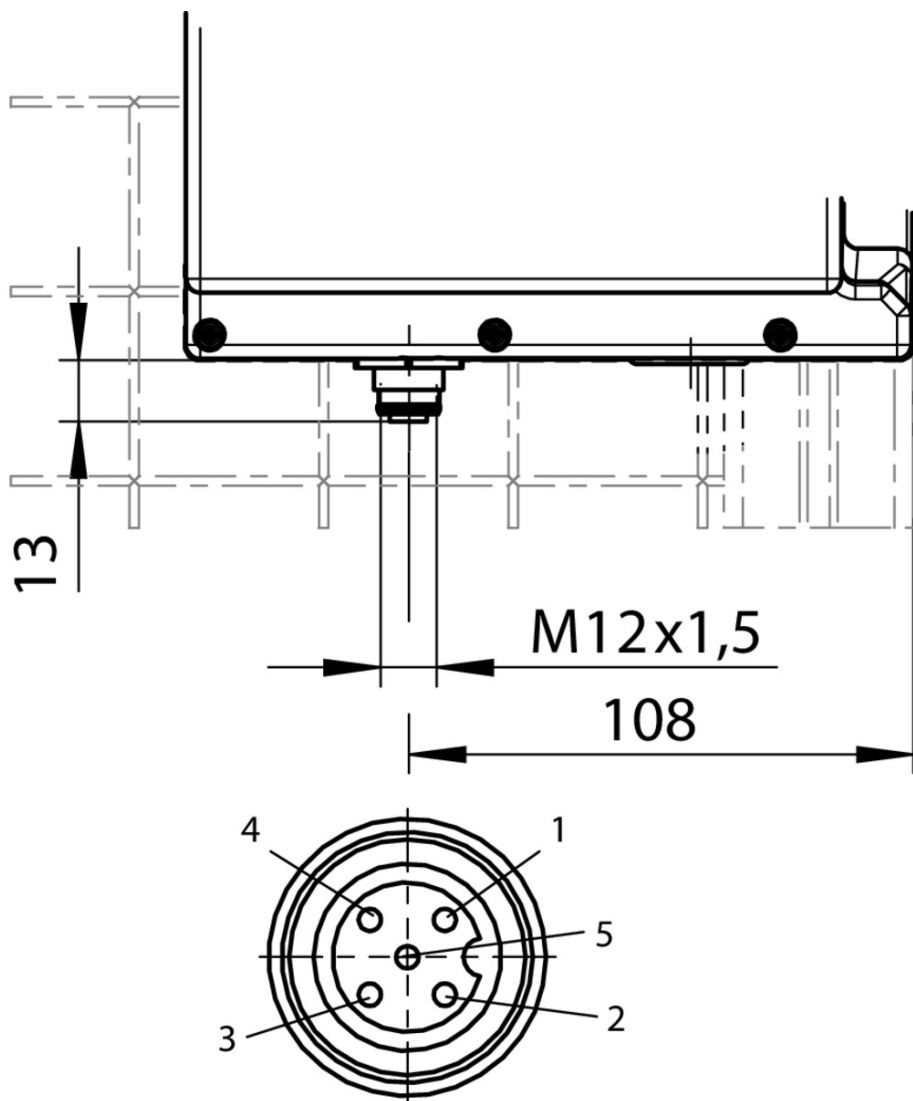
[6] (With no load on outputs OD, OT, OL, OI)

[7, 8] Value at a switching current of 50mA without taking into account the cable lengths

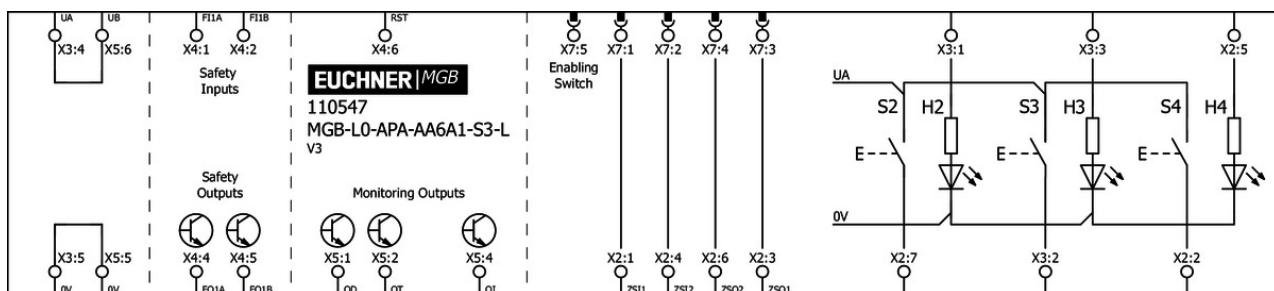
### Dimension drawing



### Dimension drawing



### Cable entry



### Miscellaneous accessories

✓ Lens set 5 colors



**120344** AY-SET-LNS-0001-120344

✓ Lens set 6 colors



**120378** AY-SET-LNS-0002-120378

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▼ Lens set labeled



**120377** AY-SET-LNS-SY01-120377

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**126158** AY-SET-LNS-SY03-126158

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**125359** AY-SET-LNS-SY02-125359

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▼ Adhesive labels

**114529** MGB-A-PLATESET-NN01-114529

▼ Features

- › Adhesive labels suitable for MGB evaluation modules, bus modules and control modules
  - › silver, blank
  - › Packaging unit = 10 pcs.
- 

▼ Lens set, three colors



**158307** AY-SET-LNS-SY04-158307

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## Mounting accessories

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▼ Mounting plate for evaluation modules MGB-L.-AR.-... and MGB-L.-AP.-...



**109490** MGB-A-MOUNTINGPLATE-L-109490

▼ Features

- › Easy and quick mounting (only two screws required)
  - › Quick module replacement
  - › Steel, powder-coated
  - › Suitable for doors hinged on the right or left
- 

## Spare parts

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▼ Lead seal kit

**087256** PLOMBENSATZ C1937

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## Connection material

### ▼ Built-in connector RC18

**120403** MGB-A-PLUGCONNECTOR-RC18-120403

#### ▼ Features

- › For all MGB with cable entry

### ▼ Cable glands M20x1.5



**086233** EKPM20/06 086233

## Enabling switch

### ▼ ZSA, 3-stage with cable and plug connector M12



**110560** ZSA2B4G10CC2322

#### ▼ Features

- › Housing G1
- › 3-stage function
- › Straight connection cable with plug connector, 10 m

## Instructions


























### ▼ Návod k použití – bezpečnostní systémy MGB-L0...AR-... a MGB-L0...AP-... od V3.0.0

	Doc. no.	Version	Language	Download
Betriebsanleitung MGB-L0...AR-... und MGB-L0...AP-... ab V3.0.0	2112657	13-05/18		2.9 MB
Mode d'emploi MGB-L0...AR-... et MGB-L0...AP-... à partir de V3.0.0	2112657	13-05/18		3.0 MB
Manual de instrucciones MGB-L0...AR-... y MGB-L0...AP-... V3.0.0 o superior	2112657	13-05/18		2.9 MB
Návod k použití – bezpečnostní systémy MGB-L0...AR-... a MGB-L0...AP-... od V3.0.0	2112657	13-05/18		3.2 MB
Operating Instructions MGB-L0...AR-... and MGB-L0...AP-... from V3.0.0	2112657	13-05/18		2.9 MB
Istruzioni di impiego per MGB-L0...AR-... e MGB-L0...AP-... da V3.0.0	2112657	13-05/18		2.9 MB
Instrukcja obsługi MGB-L0...AR-... i MGB-L0...AP-... od V3.0.0	2112657	13-05/18		3.2 MB
Manual de instruções MGB-L0...AR-... e MGB-L0...AP-... a partir de V3.0.0	2112657	13-05/18		2.9 MB
Инструкция по эксплуатации MGB-L0...AR-... и MGB-L0...AP-... с V3.0.0	2112657	13-05/18		3.4 MB









Instruktionsbok MGB-L0...AR.-... och MGB-L0...AP.-... fr. V3.0.0	2112657	13-05/18		 2.9 MB
操作指示書 安全システム MGB-L0...-AR.-... および MGB-L0...-AP.-... V3.0.0以降	2112657	13-05/18		 3.3 MB
使用说明书 安全系统 MGB-L0...-AR.-...和MGB-L0...-AP.-... V3.0.0以上	2112657	13-05/18		 3.3 MB

 Sicherheitsinformation (Teil der Betriebsanleitung Sicherheitssystem MGB-AR/MGB-AP) ab V3.0.0

	Doc. no.	Version	Language	Download
Sicherheitsinformation (Teil der Betriebsanleitung Sicherheitssystem MGB-AR/MGB-AP) ab V3.0.0 Información de seguridad (parte del manual de instrucciones Sistema de seguridad MGB-AR/MGB-AP) V3.0.0 o superior Information de sécurité (partie du mode d'emploi Système de sécurité MGB-AR/MGB-AP) à partir de V3.0.0 Informazioni sulla sicurezza (Parte delle istruzioni di impiego Sistema di sicurezza MGB-AR/MGB-AP) da V3.0.0 Säkerhetsinformation (Del av instruktionsboken Säkerhetssystem MGB-AR/MGB-AP) från V3.0.0 Safety Information (Part of the Operating Instructions Safety System MGB-AR/MGB-AP) from V3.0.0	123151	01-02/15	     	 0.6 MB
Veiligheidsinformatie (Deel van de handleiding Beveiligingssysteem MGB-AR/MGB-AP) vanaf V3.0.0	123151	01-02/15		 0.2 MB
Informação de segurança (Parte do manual de instruções Sistema de segurança MGB-AR/MGB-AP) a partir de V3.0.0	123151	01-02/15		 0.2 MB
Bezpečnostní informace (součást návodu k použití „Bezpečnostní systém MGB-AR/MGB-AP“) od V3.0.0	123151	01-02/15		 0.2 MB
Informacje o bezpieczeństwie (Część instrukcji obsługi System bezpieczeństwa MGB-AR/MGB-AP) od V3.0.0	123151	01-02/15		 0.2 MB
Информация о безопасности (часть инструкции по эксплуатации Предохранительная система MGB-AR/MGB-AP) с V3.0.0	123151	01-02/15		 0.3 MB
Bezpečnostná informácia (časť návodu na prevádzku Bezpečnostný systém MGB-AR/MGB-AP) od V3.0.0	123151	01-02/15		 0.2 MB
Güvenlik bilgisi (İşletim kılavuzunun parçası emniyet sistemi MGB-AR/MGB-AP) V3.0.0 ve üstü	123151	01-02/15		 0.3 MB
安全信息 (安全系统 MGB-AR/MGB-AP使用说明书的组成部分) V3.0.0以上	123151	01-02/15		 0.3 MB
安全情報 MGB-AR/MGB-AP	123151	01-02/15		 0.6 MB

**Declaration of conformity**

 EU-Konformitätserklärung

	<b>Doc. no.</b>	<b>Version</b>	<b>Language</b>	<b>Download</b>
EU-Konformitätserklärung	2123150	08-01/17		 0.3 MB
Declaración UE de conformidad				
Déclaration UE de conformité				
Dichiarazione di conformità				
EU declaration of conformity			