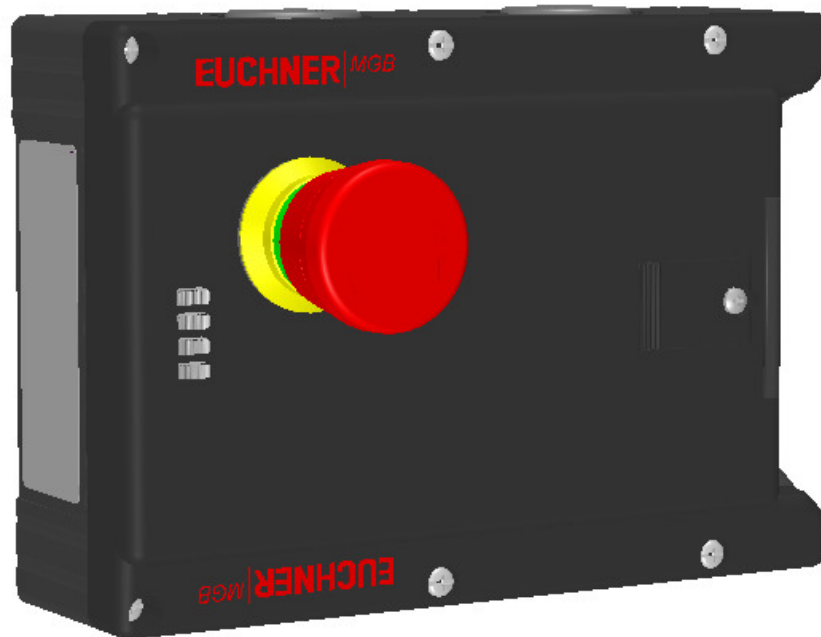


## ITEM 116214 MGB-L0-ARA-AH6A1-M-116214

Description	Technical data	Accessories	Downloads
-------------	----------------	-------------	-----------



### Features

- › Locking (without guard locking)
- › Can be connected in series with other AR devices (e.g. CES-AR and CET-AR)
- › Emergency stop according to ISO 13850
- › With cable entry
- › 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.

## Monitoring outputs

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

## Emergency stop device

- S1** 2 positively driven NC contacts and 1 NO contact (e.g. monitoring contact), emergency stop with turn-to-reset, not illuminated

## 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 right
Switching frequency	0,25 Hz
Connection	Cable entries M20x1.5

## Electrical connection ratings

Utilization category according to EN 60947-5-2	DC-13 24V 200mA <sup>[1]</sup>
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 U<sub>B</sub></b>	
Operating voltage DC	
U <sub>B</sub>	24 V DC -15% ... 10% <sup>[2]</sup>
Current consumption	
I <sub>UB</sub>	max.80 mA <sup>[3]</sup>
<b>Power supply U<sub>A</sub></b>	
Operating voltage DC	
U <sub>A</sub>	24 V DC -15% ... 10% <sup>[4]</sup>
Current consumption	
I <sub>UA</sub>	max.10 mA <sup>[5]</sup>
<b>Safety outputs FO1A, FO1B</b>	
Test pulses	max.1 ms
Test-pulse interval	min.100 ms
Type of output	Semiconductor outputs, p-switching, short circuit-proof
Output voltage	
U <sub>FO1A</sub> /U <sub>FO1B</sub> HIGH	U <sub>B</sub> -2V ... U <sub>B</sub> V DC <sup>[6]</sup>
U <sub>FO1A</sub> /U <sub>FO1B</sub> 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 <sub>A</sub> -2V ... U <sub>A</sub> V DC <sup>[7]</sup>
Output current	max.50 mA
<b>Controls and indicators</b>	
Switching voltage	U <sub>A</sub> V
Switching current	1 ... 10 mA
Breaking capacity	max.0,25 W
Power supply LED	24 V DC
<b>Emergency stop</b>	
Switching voltage	5 ... 24 V
Switching current	1 ... 100 mA
Breaking capacity	max.0,25 W
Power supply LED	24 V DC

## Controls and indicators

Assignment diagram	L1
Control/indicator	

	<b>Position 1</b>
Version	Emergency stop
Special features	With auxiliary contact
Color	
Switching element	2 pos. driven NC + 1NO

### Miscellaneous

Product version number	V3.0.3
------------------------	--------

### 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>	$3.7 \times 10^{-9}$
	<b>Emergency stop</b>
B10 <sub>D</sub>	0,065 x 10 <sup>6</sup>
Emergency stop	

Mission time	20 y
--------------	------

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

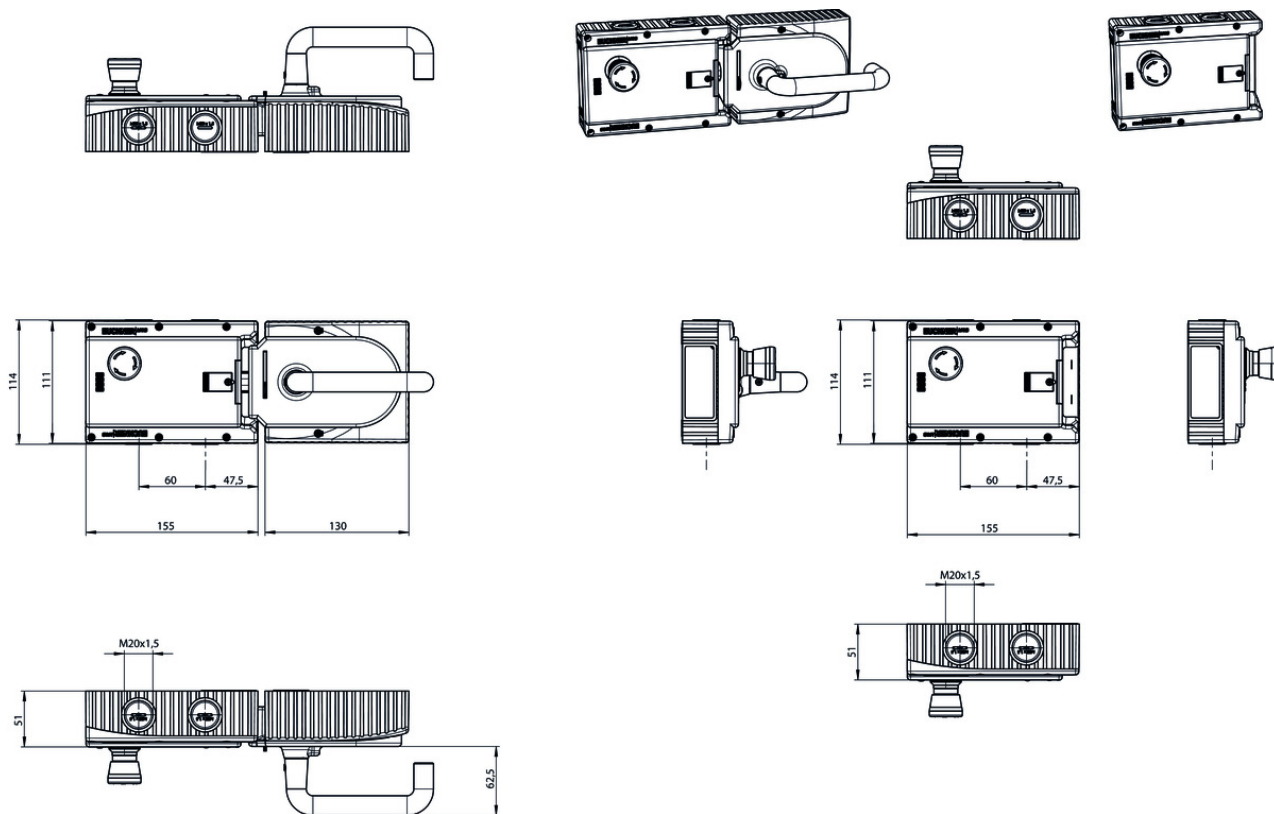
[2, 4] (Reverse polarity protected, regulated, residual ripple <5%, PELV)

[3] (no load on outputs)

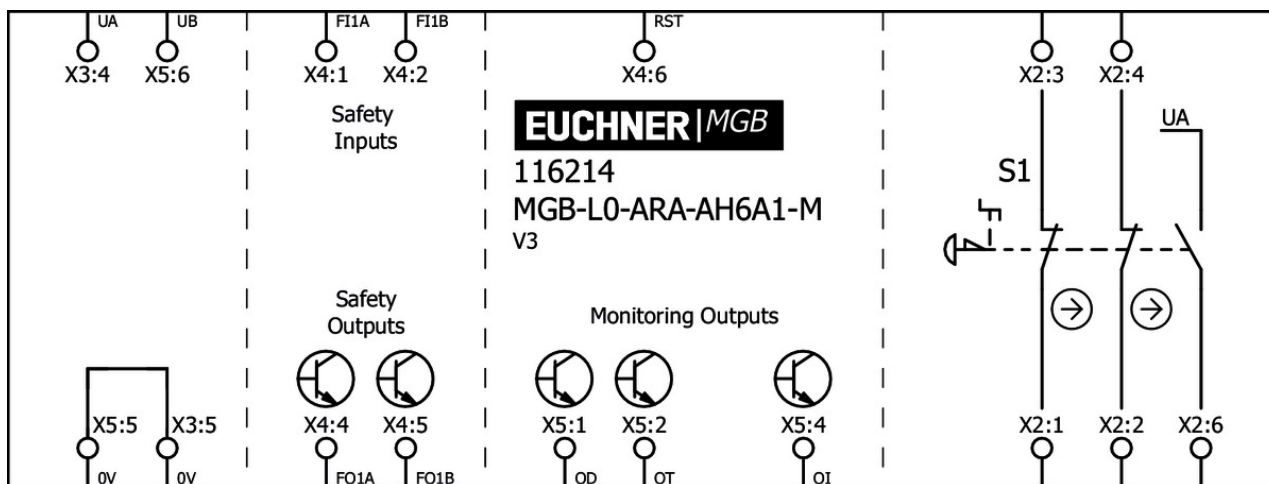
[5] (With no load on outputs OD, OT, OL, OI)

[6, 7] Value at a switching current of 50mA without taking into account the cable lengths

## Dimension drawing



## Cable entry



## 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

---

## Mounting accessories

---

- ▼ 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
- 

## Function expansion

---

- ▼ Emergency unlocking for safety system MGB



**112989** MGB-A-EMERGENCYRELEASE-112989

### ▼ Features

- › Quick emergency unlocking
  - › sealable
- 

## Miscellaneous accessories

---

- ▼ Lens set 5 colors



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

---

- ▼ Lens set labeled



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

---



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

---



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

---

- ▼ Lens set 6 colors



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

---

✓ Lens set, three colors



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


























## 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

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