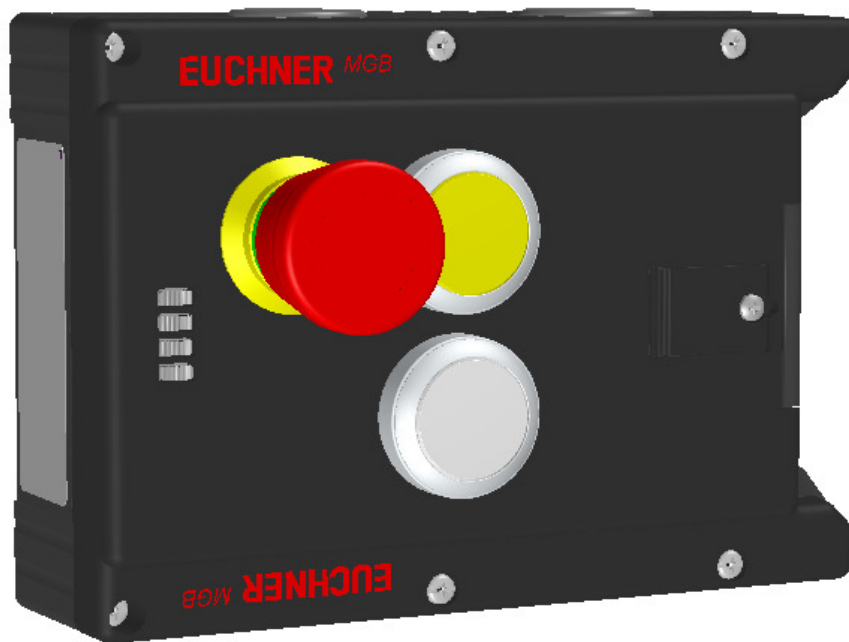


## ITEM 106106 MGB-LO-ARA-AB8A1-M-106106

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



### Features

- › Locking (without guard locking)
- › Can be connected in series with other AR devices (CES-AR and CET-AR)
- › Emergency stop according to ISO 13850
- › 2 pushbuttons (illuminated, ye, wh)
- › With cable entry
- › Unicode

### Guard locking type

**MGB-** The bolt tongue in the handle module is moved into and out of the **LO...** 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

---

### Pushbutton

- S2** 1 NO contact, yellow, illuminated
- S3** 1 NO contact, white, 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% [2]
Current consumption I <sub>UB</sub>	max.80 mA [3]
<b>Power supply U<sub>A</sub></b>	
Operating voltage DC U <sub>A</sub>	24 V DC -15% ... 10% [4]
Current consumption I <sub>UA</sub>	max.10 mA [5]
<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 [6]
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 [7]
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
Control/indicator	
	<b>Position 2</b>
Version	Illuminated push buttons
Special features	
Color	Yellow
Switching element	1NO
Control/indicator	
	<b>Position 3</b>
Version	Illuminated push buttons
Special features	
Color	white
Switching element	1NO

## Miscellaneous

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

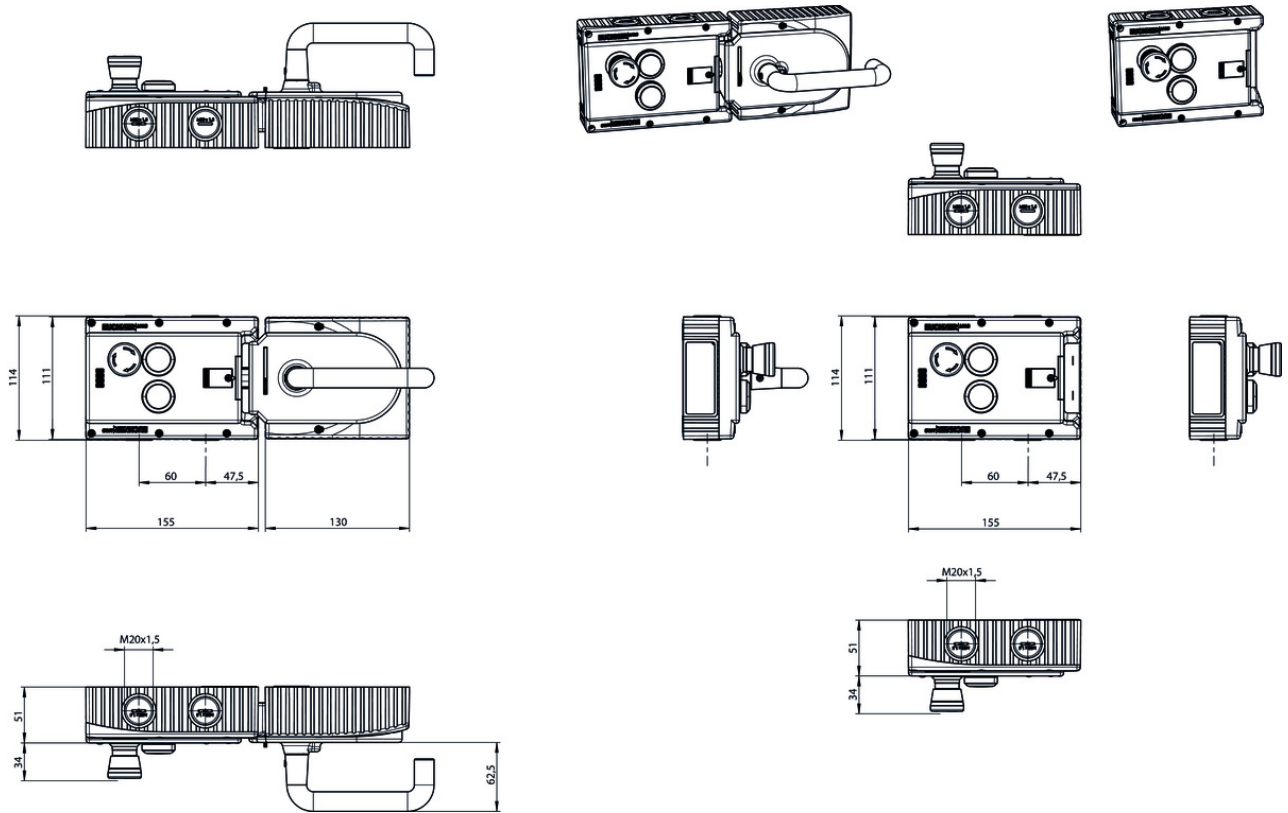
## Reliability values acc. to EN ISO 13849-1

	<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>	
Emergency stop	$0,065 \times 10^6$

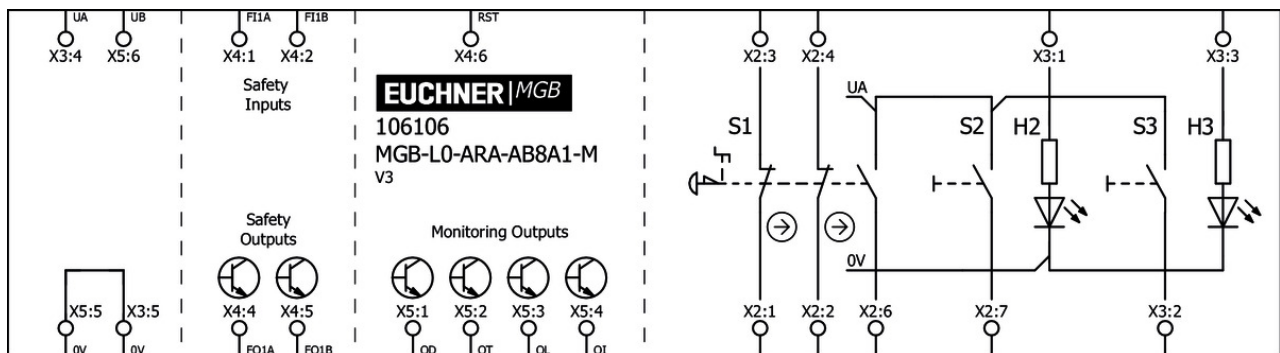
Mission time	20 y
--------------	------

- [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



### 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

## 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


























## 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