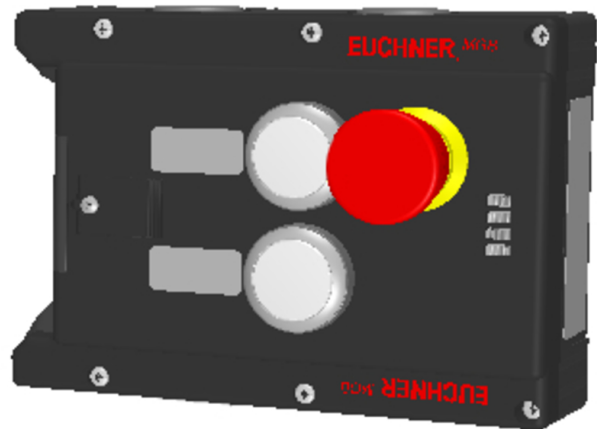


MGB-L2-ARA-AM3A1-M-L-121263 (ORDER NO. 121263)

Locking module MGB-L2-ARA..., (guard locking by solenoid force) with 2 push buttons, emergency stop, incl. label carrier

- ▶ Guard locking with guard lock monitoring
- ▶ Can be connected in series with other AR devices (e.g. CES-AR and CET-AR)
- ▶ Emergency stop according to ISO 13850
- ▶ 2 pushbuttons (illuminated)
- ▶ With lens set, 6 pcs.
- ▶ Incl. adhesive labels
- ▶ With cable entry
- ▶ Unicode



Description

Guard locking type

MGB- The locking arm is held in the locked position by solenoid force and is unlocked by spring force when the solenoid is switched L2... off (open-circuit current principle, electrically locked).

Door stop

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 into the evaluation module
- OL Guard locking solenoid in locked position
- OI Diagnostics; there is a fault

Emergency stop device

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

Pushbutton

S2 1 NO contact, illuminated

S3 1 NO contact, illuminated

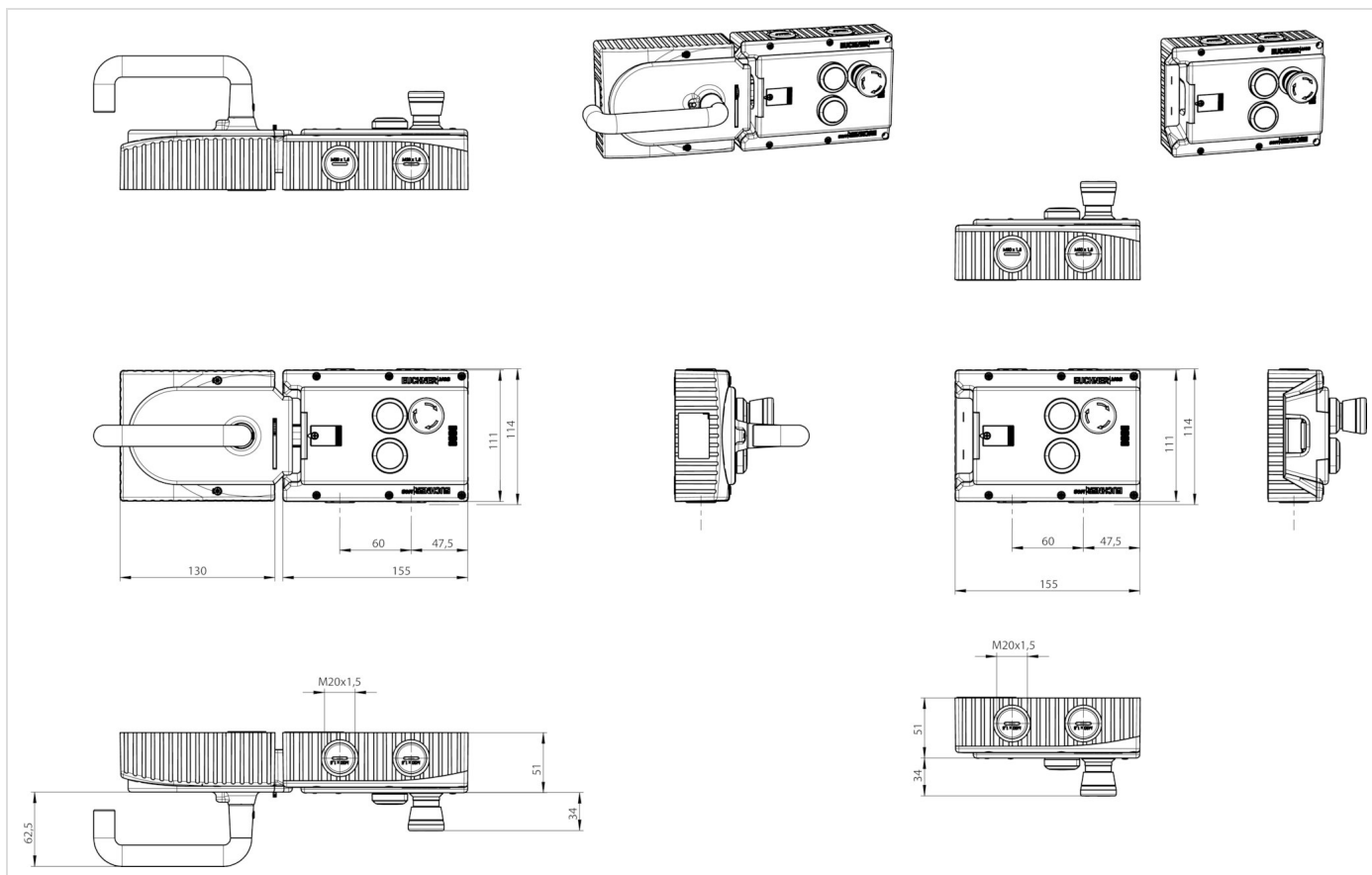
Lens set

The color of the pushbutton can be selected using the lens set included (5 colors). Item no.: 120344 (see Accessories)

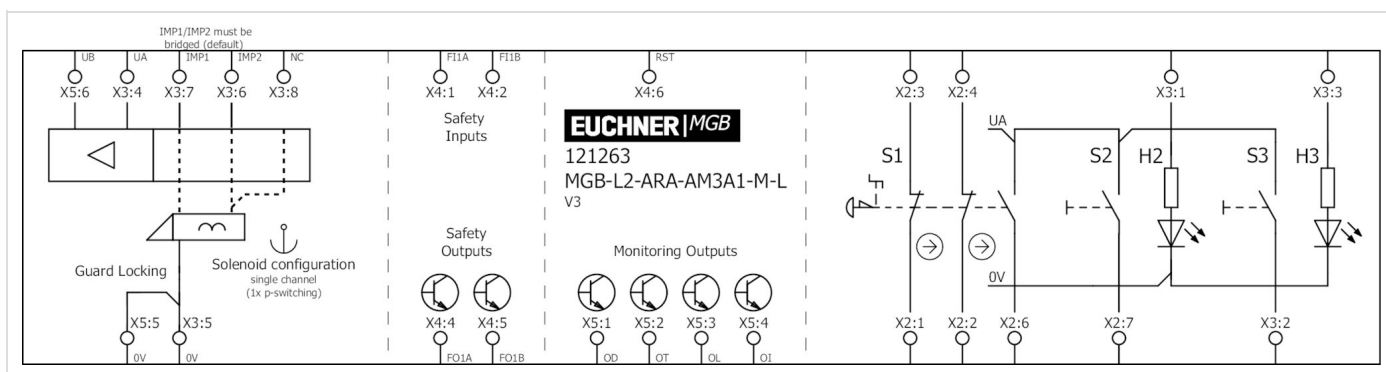
Adhesive labels

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.

Dimension drawing



Cable entry



Technical data

Mechanical values and environment

| | | |
|--------------------------|--|--|
| Housing material | Housing | 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 x 10 ⁶ |
| | In case of use as door stop, and 1 Joule impact energy | 0,1 x 10 ⁶ |
| Installation orientation | | Door hinge DIN left |
| Switching frequency | | 0,25 Hz |
| Connection | | Cable entries M20x1.5 |
| Guard locking principle | | Open-circuit current principle |
| Locking force F_{zh} | | 2000 N |

Electrical connection ratings

Utilization category acc. to EN 60947-5-2

| | | |
|---|--|--|
| | DC-13 | 24V 200mA (Caution: outputs must be protected with a free-wheeling diode in case of inductive loads.) |
| 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 ² ((AWG 24 ... AWG 16)) |
| | (Rigid/flexible) with cable end sleeve with collar according to DIN 46 228/1 | 0,25 ... 0,75 mm ² |
| | (Rigid/flexible) with cable end sleeve according to DIN 46 228/1 | 0,25 ... 1,5 mm ² |
| 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 |
| | | Power supply U_A |
| Operating voltage DC | U_A | 24 V DC -15% ... 10% ((Reverse polarity protected, regulated, residual ripple <5%, PELV)) |
| Current consumption | I_{UA} | max.375 mA ((With energized guard locking solenoid and unloaded outputs OD, OT, OL, OI, +20 °C, 24V)) |

Safety outputs F01A, F01B

| | |
|---------------------|--|
| Test pulses | max.1 ms |
| Test-pulse interval | min.100 ms |
| Type of output | Semiconductor outputs, p-switching, short circuit-proof |
| Output voltage | |
| | U_{F01A} / U_{F01B} HIGH UB-2V ... UB V DC (Value at a switching current of 50mA without taking into account the cable lengths) |
| | U_{F01A} / U_{F01B} LOW 0 ... 1 V DC |
| Output current | |
| | Per safety output F01A / F01B 1 ... 200 mA |

Monitoring outputs OD, OT, OL, OI

| | |
|----------------|---|
| Type of output | Semiconductor outputs, p-switching, short circuit-proof |
| Output voltage | UA-2V ... UA V DC (Value at a switching current of 50mA without taking into account the cable lengths) |
| Output current | max.50 mA |

Controls and indicators

| | |
|-------------------|-------------|
| Switching voltage | U_A V |
| Switching current | 1 ... 10 mA |
| Breaking capacity | max.0,25 W |
| Power supply LED | 24 V DC |

Emergency stop

| | |
|-------------------|--------------|
| Switching voltage | 5 ... 24 V |
| Switching current | 1 ... 100 mA |
| Breaking capacity | max.0,25 W |
| Power supply LED | 24 V DC |

Solenoid control input IMP1, IMP2, IMM

| | |
|---------------------|------------|
| Test pulses | max.5 ms |
| Test-pulse interval | min.100 ms |

Power supply U_B

| | |
|----------------------|--|
| Operating voltage DC | |
| | U_B 24 V DC -15% ... 10% ((Reverse polarity protected, regulated, residual ripple <5%, PELV)) |
| Current consumption | |
| | I_{UB} max.80 mA ((no load on outputs)) |

Controls and indicators

| | |
|--------------------|------------------------|
| Assignment diagram | L1 |
| Position 1 | |
| Version | Emergency stop |
| Slide-in label | |
| Special features | With auxiliary contact |
| Color | |
| Switching element | 2 pos. driven NC + 1NO |

| | |
|-------------------|--------------------------|
| Position 2 | |
| Version | Illuminated push buttons |
| Slide-in label | |
| Special features | |
| Color | |
| Switching element | 1NO |

| | |
|-------------------|--------------------------|
| Position 3 | |
| Version | Illuminated push buttons |
| Slide-in label | |
| Special features | |
| Color | |
| Switching element | 1NO |

Other

| | |
|------------------------|--------------------------------|
| Additional feature | Incl. cover set ID. No. 120344 |
| Product version number | V4.0.0 |
| Slide-in label | 2 pcs. without marking |

Reliability values according to EN ISO 13849-1

| | |
|--|------------------------|
| Emergency stop | |
| B10 _D | |
| Emergency stop | 0,13 x 10 ⁶ |
| Monitoring of guard locking and the safety guard position | |
| Category | 4 |
| Performance Level | PL e |
| PFH _D | 3.7 x 10 ⁻⁹ |
| Mission time | 20 y |

Accessories

Connection material

Built-in connector RC18

120403
MGB-A-PLUGCONNECTOR-RC18-
120403

- ▶ For all MGB with cable entry

Cable glands M20x1.5, cable Ø 6-12 mm



086233
EKPM20/06 086233

Function expansion

Emergency unlocking for safety system MGB



112989
MGB-A-EMERGENCYRELEASE-112989

- ▶ Quick emergency release
- ▶ sealable

Miscellaneous accessories

Adhesive labels

114529
MGB-A-PLATESET-NN01-114529

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

Lens set 5 colors



120344
AY-SET-LNS-0001-120344



163284
AY-SET-LNS-0003-163284

Lens set 6 colors



120378
AY-SET-LNS-0002-120378

Lens set labeled

LENS SET labeled



120377
AY-SET-LNS-SY01-120377



125359
AY-SET-LNS-SY02-125359



126158
AY-SET-LNS-SY03-126158



158307
AY-SET-LNS-SY04-158307



160049
AY-SET-LNS-SY05-160049

Mounting accessories

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



109490
MGB-A-MOUNTINGPLATE-L-109490

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

Contacts

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