Presentation
EUCHNER Multifunctional Gate Box MGB
EUCHNER Multifunctional Gate Box MGB

Guard locking / Interlocking Device

- Interlocking device
  - MGB-L0…

- Locking device
  - MGB-L1…
    - Mechanical locking/ spring locked (power to unlock)
  - MGB-L2…
    - Electrical locking/ solenoid locked (power to lock)
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Handle module
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Escape release module

– Optional
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Handle module

- Robust plastic housing with transponder
- Handle (Standard door handle)
- Locking bolt metal with transponder
- Integrated, fold away lockout bar for maximum 3 padlocks

Handle module with automatic lockout bar

- Locking bolt
- Transponder
- Lockout bar
- Handle
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Locking/Interlocking module

- For locking safety doors (safety switch with guard locking)
- Robust plastic housing
- Metal funnel
- Mechanical auxiliary release
- Status monitoring with LEDs
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- Escape release module:
  - Handle in red color
  - Mounting plate
  - Shaft with cover
  - Shaft and cover for profile widths > 40 mm
    - Order separately: 106761
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Overview:

– Housing material: Reinforced fiber thermoplastic metal enforced at all critical points
– Tolerances: x: +/- 4 mm (axial to the locking bolt)
  y: 0,5 mm (direction to the mechanical block of door)
  z: +/- 5 mm (axial to the rotating axis of hinged door)
– Locking module: Large funnel for centering handle module
– Modules: Simple mounting and adjusting of modules
– Mechanical life: > 1 Mio. cycles
– Handle module: Bi-stable rest mechanism for open and closed position
– Locking force: 2000 N

All technical data are preliminary
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Overview:

- Connection: Cage clamp terminals
- Wire width: 0.25mm² – 1.5mm² (acc. to DIN 46228/1)
- Cable entry point: 4 x M20x1.5; 2 entries at lower side, 2 at upper side
- Protection class: IP54/IP42 (optional IP65)
- Lockout bar: 3 padlocks with max. 8mm or 2 padlocks with 8mm + 1 padlock with 10mm
- Sensor-technology: Transponder, CES-AR
- Switching current: O_A, O_B = 200 mA
- Door monitoring: Yes
- Safety: Category 4 acc. to EN 954-1, PL e acc. to EN ISO 13849-1
- LED-Indication: 4 LEDs (power, diagnosis, door position, lock)

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More functionality with operation panel
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Operation panel on

- Locking module or interlocking module with integrated
  - Illuminated push buttons
  - Emergency-stop button
    - Version with 2 NC
    - Version with 2NC and 1 NO

ATTENTION: The control elements are restricted to 4 due to the housing and the terminals are restricted to 10 (Example: 2 push buttons illuminated, 1 signal and 1 dual channel emergency-stop)
Printing on the controls and indicators

A certain number of symbols are available for being printed directly on the push-button.
For other symbols a minimum quantity of at least 100 pcs. is needed.

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IP 65 Version

No E-Stop possible in IP65!
MGB with connector

- RC18 connector
- M12 connector (for enabling switch)
- HC 26
Customized Versions (Automotive)
Customized Versions (Automotive) – old version
Customized Versions (Automotive)
Customized Versions (Automotive)
Customized Versions (Automotive)

More than safety.

EUCHNER

BMW
Customized Versions (Automotive)
More than safety.

Application examples

Saw mill application

Robot training cell
Steel manufacturing application
Control module

- This module can be equipped with the same controls and indicators as at the MGB evaluation module.
- Standard controls and indicators cannot be used (reduced built-in depth).
- The wiring can be done to a connector block (optional).
- No restrictions concerning fixed positions for the controls and indicators.
- A self-assembly kit is available.
- Nameplates can be mounted.
Control module
Housing and connectors

Housing

Connector block (optional)
Control module
Controls and Indicators

- Blind plug
- Selector switch
- E-Stop
- Key selector switch
- Push button
- Cover for indicator

- Name Tags

- LED holder
- Switching element 2NC
- Switching element 2NC + 1NO
- LED, white
Control module
Connection to the MGB
MGB for sliding doors

All MGB versions are suitable for use in sliding door applications!
MGB Mounting Plates

Available for:
- Handle module
- Escape release module
- Interlocking/locking module
- Control module and locking module
MGB - Future developments

- DIP switch inside for selecting
  - function between AR/AP
  - Guard locking monitoring as a safety function activating/deactivating
  - Teach-in mode activating/deactivating

- Additional clamp inside the MGB

- More flexibility of indicator integration inside the MGB locking module
  (e.g. 1 E-Stop and 3 illuminated PB possible)

- Improved connection cable between cover and module

- Possibility for using a safe output from Siemens PLC for controlling the solenoid
Thank you!