

EMG

Electromagnetic Locks Global



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Area of use

EMG electromagnetic locks offer a simple and economical locking solution for access control systems in commercial, public and residential buildings. A wide range of maglock types and mounting brackets ensure the right fit on many door types and applications.

Maglocks can be easily installed. As the electrified locks are installed on door frames, there is no need to wire the door leafs. Good upgrade option for existing doors with traditional mechanical hardware.

All maglocks operate in fail-safe mode, ensuring safe passage at emergency doors in case of a power outage. Safe operation with pre-load applied.

EMG maglocks offer different monitoring options with lock and door status signals and a bi-colored LED lens.

Maglocks are suitable for long lifetime applications, as the holding force is generated by an electromagnetic field and not by mechanically interacting components that could wear out.

Certificates

Certification	CE, RoHS, UKCA	
Performance test	Yes (holding force, durability 350.000 cycles)	
Fire resistance test	Yes	
Corrosion resistance test	Yes (48h)	

LED design

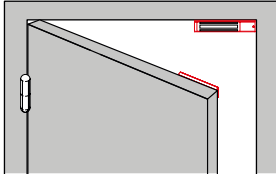
Big LED lens in oblong design. High luminosity.

Green light	locked
Red light	not locked
Not illuminated	no power supply

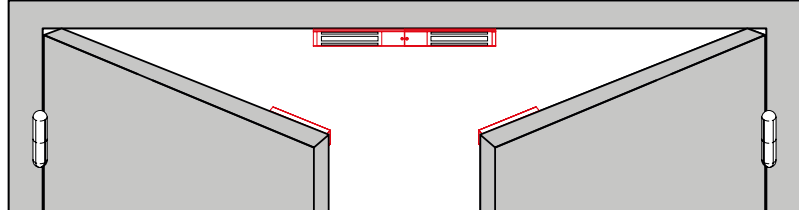


Typical mounting applications

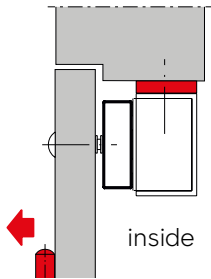
Single swing door



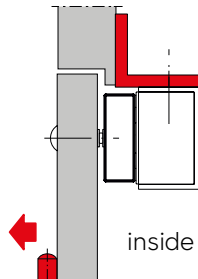
Double swing door



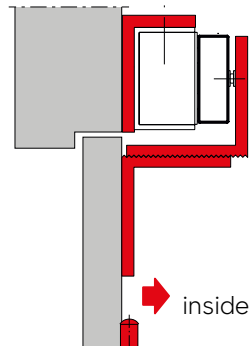
Regular installation



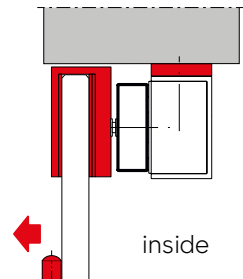
L-bracket for narrow door frame



LZ bracket for inswing doors

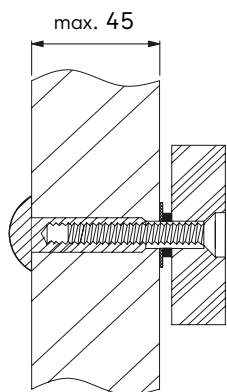


U-bracket for frameless glass doors

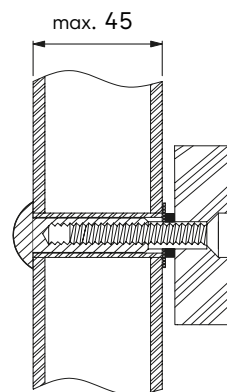


Mounting of the armature plate

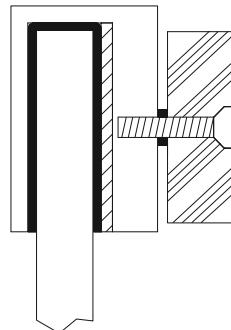
Wooden door



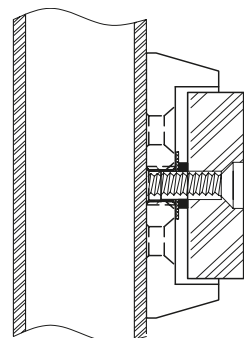
Aluminum or PVC door



Glass door
10 to 12.5 mm
U bracket



Armature plate holder
when door thickness > 45 mm or
the door cannot be drilled through



Terminology

EMG – Electro-Magnetic Locks – New Standard Range Global

Maglock series	Holding force (lbf, pound force)	Type	Signals		
			Lock Status	LED	Door Status
EMG	300 600 1200	Single () Double (-2) Mortise (M) Weather (W)	A	L	C

EMG Brackets

Maglock series	Holding force (lbf, pound force)	Type
		Mounting accessories (optional)
EMG-B	300 600 1200	L bracket for outswing doors with narrow frame
		LC covered L bracket
		LZ bracket for inswing doors
		LZC covered LZ bracket
		U bracket for frameless glass doors
		UU bracket for full glass application (door and frame)
		UUR bracket for right door leaf of double full glass doors (UU for left door)
		AH armature plate holder for door thicknesses greater than 45 mm
		AHC armature plate holder for maglock types with door status signal (C)
		AB armature base as alternative to AH / AHC
		W L L bracket for weather resistant maglock types
		W LZ LZ bracket for weather resistant maglock types

Symbols / Abbreviations for monitoring options

A  Lock status signal

L  LED indication

C  Door status signal

Combination Matrix	Brackets	EMG-B 300 L	EMG-B 300 LZ	EMG-B 300 U	EMG-B 600 L	EMG-B 600 LC	EMG-B 600 LZ	EMG-B 600 LZC	EMG-B 600 U	EMG-B 600 UU	EMG-B 600 UUR	EMG-B 600 AH	EMG-B 600 AHC	EMG-B 600 AB	EMG-B 1200 L	EMG-B 1200 LC	EMG-B 1200 LZ	EMG-B 1200 LZC	EMG-B 1200 U	EMG-B 1200 AH	EMG-B 1200 AHC	EMG-B 1200 AB	EMG-B 600-W L	EMG-B 600-W Z	EMG-B 1200-W L	EMG-B 1200-W Z
Maglocks																										
EMG 300		●	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EMG 300 AL		●	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EMG 300-2		●	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EMG 300-2 AL		●	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EMG 300-M		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EMG 300-M A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EMG 600		-	-	-	●	●	●	●	●	●	-	●	-	●	-	-	-	-	-	-	-	-	-	-	-	-
EMG 600 AL		-	-	-	●	●	●	●	●	●	-	●	-	●	-	-	-	-	-	-	-	-	-	-	-	-
EMG 600 ALC		-	-	-	●	●	●	●	●	●	-	-	●	●	-	-	-	-	-	-	-	-	-	-	-	-
EMG 600-2		-	-	-	●	●	●	●	●	●	●	●	-	●	-	-	-	-	-	-	-	-	-	-	-	-
EMG 600-2 AL		-	-	-	●	●	●	●	●	●	●	●	-	●	-	-	-	-	-	-	-	-	-	-	-	-
EMG 600-2 ALC		-	-	-	●	●	●	●	●	●	●	-	●	●	-	-	-	-	-	-	-	-	-	-	-	-
EMG 600-M		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EMG 600-M A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EMG 600-W A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	-
EMG 1200		-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●	●	●	-	-	-	-
EMG 1200 AL		-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●	●	●	-	-	-	-
EMG 1200 ALC		-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	-	●	●	-	-	-	-
EMG 1200-2		-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●	●	-	●	-	-	-
EMG 1200-2 AL		-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●	●	●	-	-	-	-
EMG 1200-2 ALC		-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	-	●	●	-	-	-	-
EMG 1200-M		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EMG 1200-M A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EMG 1200-W A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●
EMG 1500-W A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●

● Yes - No

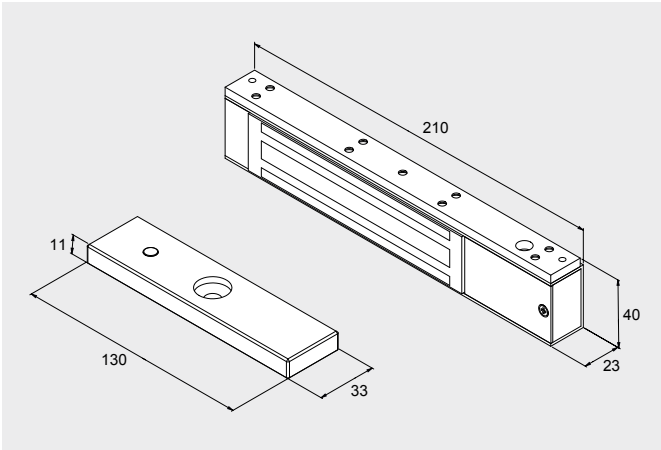


EMG Surface Mounted

Typ	Article No.	Holding force (lbf)	Swing door		Monitoring			
			Single	Double	without	lock status A	LED lens L	door status C
EMG 300	1100003130100	300	●		●			
EMG 300 AL	1100003130102		●			●	●	
EMG 300-2	1100003130104			●	●			
EMG 300-2 AL	1100003130106			●		●	●	
EMG 600	1100003130201	600	●		●			
EMG 600 AL	1100003130203		●			●	●	
EMG 600 ALC	1100003130205		●			●	●	●
EMG 600-2	1100003130211			●	●			
EMG 600-2 AL	1100003130213			●		●	●	
EMG 600-2 ALC	1100003130215			●		●	●	●
EMG 1200	1100003130301	1200	●		●			
EMG 1200 AL	1100003130303		●			●	●	
EMG 1200 ALC	1100003130305		●			●	●	●
EMG 1200-2	1100003130311			●	●			
EMG 1200-2 AL	1100003130313			●		●	●	
EMG 1200-2 ALC	1100003130315			●		●	●	●

EMG 300 / EMG 300 AL

Single electromagnetic lock for interior application with low security level. Aluminum housing.
Typical use case: single leaf swing doors (lightweight, glass), cabinets. Top mounting bracket and mounting material for regular installation included. Other bracket options described in chapters "EMG Introduction" and "Mounting Brackets".



Size L x H x W (mm)
Maglock 210 x 40 x 23 – height including 5 mm top-bracket
Armature plate 130 x 33 x 11

EMG 300	
Holding force	up to 300 lbf
Voltage	24 V DC (default) 12 V DC selectable
Current input at 12 V DC	300 mA ±10%
Current input at 24 V DC	150 mA ±10%
Operating temperature	-10 to 55°C 14 to 131°F
Operating principle	Fail-safe (unlocked if power is off)
LED colors*	Green = locked Red = not locked Off = no power supply

* applicable for AL type

EMG 300

Article No. 1100003130100



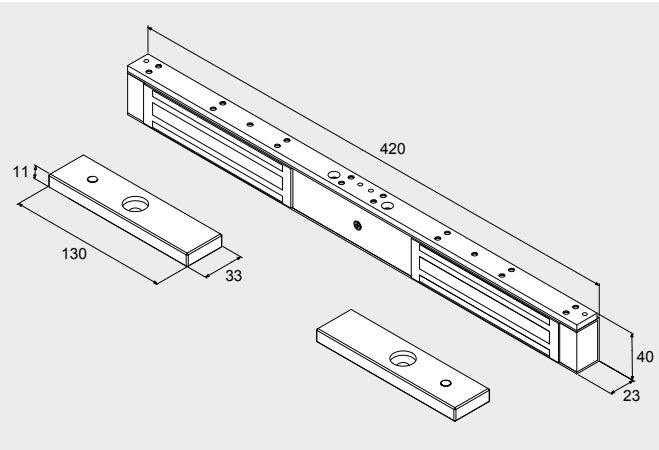
EMG 300 AL

Article No. 1100003130102



EMG 300-2 / EMG 300-2 AL

Double electromagnetic lock for interior application with low security level. Aluminum housing.
Typical use case: double leaf swing doors (lightweight, glass). Top mounting bracket and mounting material for regular installation included. Other bracket options described in chapters "EMG Introduction" and "Mounting Brackets".



Size L x H x W (mm)
Maglock 420 x 40 x 23 – height including 5 mm top-bracket
Armature plate (2x) 130 x 33 x 11

EMG 300-2	
Holding force	2 x up to 300 lbf
Voltage	24 V DC (default) 12 V DC selectable
Current input at 12 V DC	2 x 300 mA ±10%
Current input at 24 V DC	2 x 150 mA ±10%
Operating temperature	-10 to 55°C 14 to 131°F
Operating principle	Fail-safe (unlocked if power is off)
LED colors*	Green = locked Red = not locked Off = no power supply

* applicable for AL type

EMG 300-2

Article No. 1100003130104



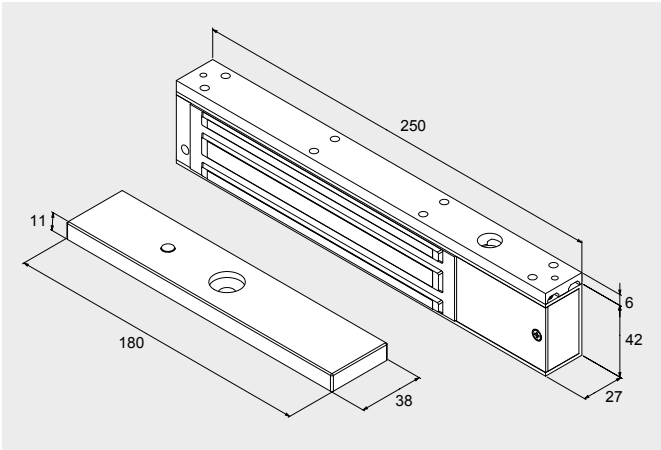
EMG 300-2 AL

Article No. 1100003130106



EMG 600 / EMG 600 AL / EMG 600 ALC

Single electromagnetic lock for interior application with low to medium security level. Aluminum housing.
Typical use case: single leaf swing doors (standard, glass). Top mounting bracket and mounting material for regular installation included. Other bracket options described in chapters "EMG Introduction" and "Mounting Brackets".



Size L x H x W (mm)
Maglock 250 x 48 x 27 – height including 6 mm top-bracket
Armature plate 180 x 38 x 11 | 190 x 38 x 11 (ALC type)

EMG 600	
Holding force	up to 600 lbf
Voltage	24 V DC (default) 12 V DC selectable
Current input at 12 V DC	480 mA ±10%
Current input at 24 V DC	240 mA ±10%
Operating temperature	-10 to 55°C 14 to 131°F
Operating principle	Fail-safe (unlocked if power is off)
LED colors*	Green = locked Red = not locked Off = no power supply

* applicable for AL and ALC types

EMG 600

Article No. 1100003130201



EMG 600 AL

Article No. 1100003130203



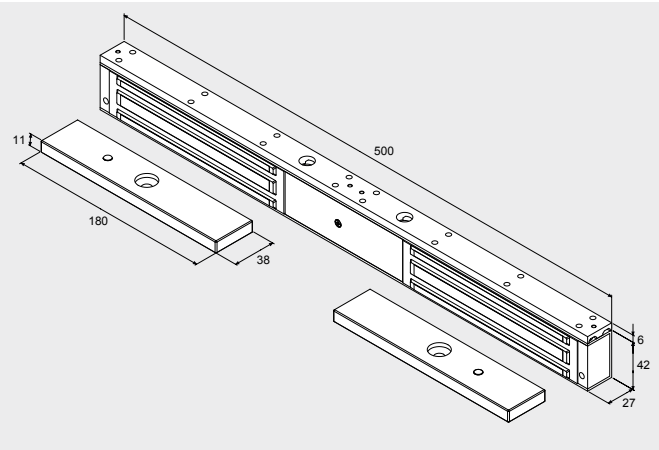
EMG 600 ALC

Article No. 1100003130205



EMG 600-2 / EMG 600-2 AL / EMG 600-2 ALC

Double electromagnetic lock for interior application with low to medium security level. Aluminum housing.
Typical use case: double leaf swing doors (standard, glass). Top mounting bracket and mounting material for regular installation included. Other bracket options described in chapters "EMG Introduction" and "Mounting Brackets".



Size L x H x W (mm)
Maglock 500 x 48 x 27 – height including 6 mm top-bracket
Armature plate 180 x 38 x 11 | 190 x 38 x 11 (ALC type)

EMG 600-2	
Holding force	2 x up to 600 lbf
Voltage	24 V DC (default) 12 V DC selectable
Current input at 12 V DC	2 x 480 mA ±10%
Current input at 24 V DC	2 x 240 mA ±10%
Operating temperature	-10 to 55°C 14 to 131°F
Operating principle	Fail-safe (unlocked if power is off)
LED colors*	Green = locked Red = not locked Off = no power supply

* applicable for AL and ALC types

EMG 600-2

Article No. 1100003130211



EMG 600-2 AL

Article No. 1100003130213



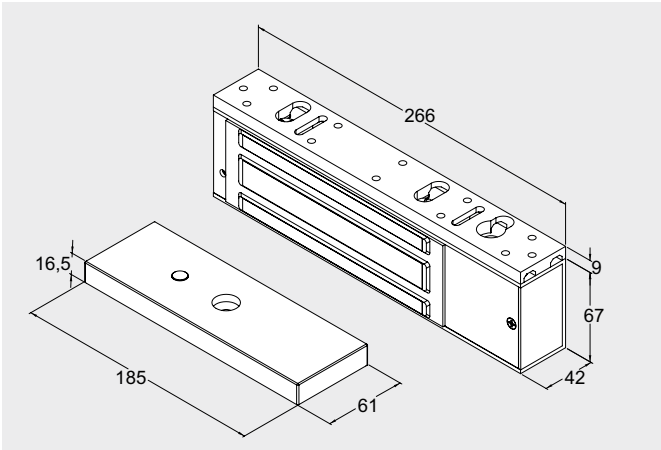
EMG 600-2 ALC

Article No. 1100003130215



EMG 1200 / EMG 1200 AL / EMG 1200 ALC

Single electromagnetic lock for interior application with medium to high security level. Aluminum housing.
Typical use case: single leaf swing doors. Top mounting bracket and mounting material for regular installation included.
Other bracket options described in chapters "EMG Introduction" and "Mounting Brackets".



Size L x H x W (mm)
Maglock 266 x 76 x 42 – height including 9 mm top-bracket
Armature plate 185 x 61 x 16.5 | 201 x 61 x 16.5 (ALC type)

EMG 1200	
Holding force	up to 1200 lbf
Voltage	24 V DC (default) 12 V DC selectable
Current input at 12 V DC	420 mA ±10%
Current input at 24 V DC	210 mA ±10%
Operating temperature	-10 to 55°C 14 to 131°F
Operating principle	Fail-safe (unlocked if power is off)
LED colors*	Green = locked Red = not locked Off = no power supply

* applicable for AL and ALC types

EMG 1200 Article No. 1100003130301



EMG 1200 AL Article No. 1100003130303

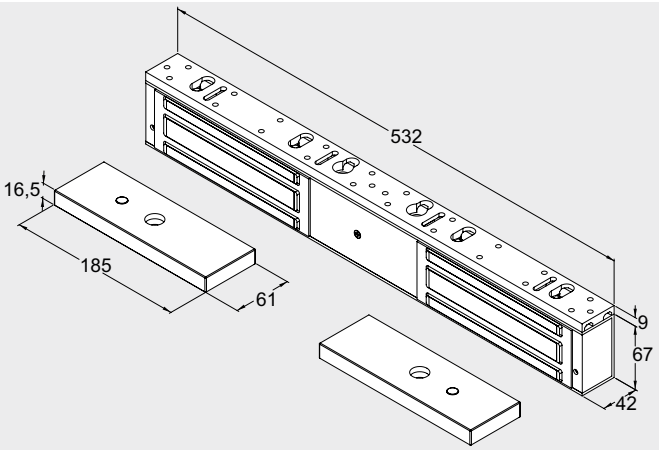


EMG 1200 ALC Article No. 1100003130305



EMG 1200-2 / EMG 1200-2 AL / EMG 1200-2 ALC

Double electromagnetic lock for interior application with medium to high security level. Aluminum housing.
Typical use case: double leaf swing doors. Top mounting bracket and mounting material for regular installation included.
Other bracket options described in chapters "EMG Introduction" and "Mounting Brackets".



Size L x H x W (mm)
Maglock 532 x 76 x 42 – height including 9 mm top-bracket
Armature plate 185 x 61 x 16.5 | 201 x 61 x 16.5 (ALC type)

EMG 1200-2	
Holding force	2 x up to 1200 lbf
Voltage	24 V DC (default) 12 V DC selectable
Current input at 12 V DC	2 x 420 mA ±10%
Current input at 24 V DC	2 x 210 mA ±10%
Operating temperature	-10 to 55°C 14 to 131°F
Operating principle	Fail-safe (unlocked if power is off)
LED colors*	Green = locked Red = not locked Off = no power supply

* applicable for AL and ALC types

EMG 1200-2

Article No. 1100003130311



EMG 1200-2 AL

Article No. 1100003130313



EMG 1200-2 ALC

Article No. 1100003130315



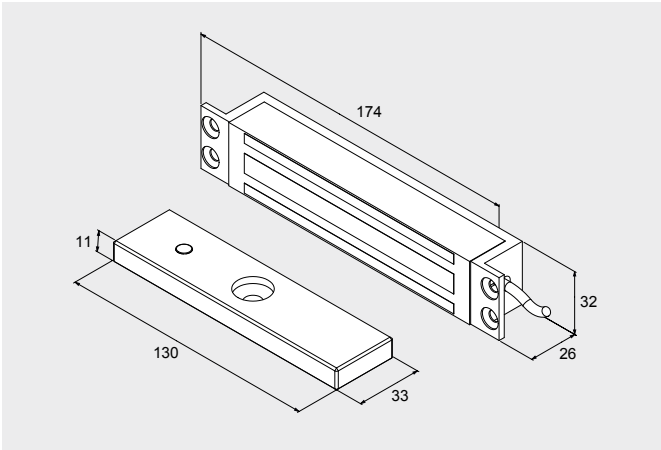


EMG Mortise Mounted

Typ	Article No.	Holding force (lbf)	Monitoring	
			without	lock status A
EMG 300-M	1100003130108	300	●	
EMG 300-M A	1100003130109	300		●
EMG 600-M	1100003130217	600	●	
EMG 600-M A	1100003130218	600		●
EMG 1200-M	1100003130317	1200	●	
EMG 1200-M A	1100003130318	1200		●

EMG 300-M / EMG 300-M A

Single mortise mounted maglock for low security applications. Aluminum housing.
Typical use case: interior sliding doors. Mounting material included.



Size L x H x W (mm)
Maglock 174 x 32 x 26
Armature plate 130 x 33 x 11

EMG 300-M	
Holding force	up to 300 lbf
Voltage	24 V DC (default) 12 V DC selectable
Current input at 12 V DC	300 mA +10%
Current input at 24 V DC	150 mA +10%
Operating temperature	-10 to 55°C 14 to 131°F
Operating principle	Fail-safe (unlocked if power is off)

EMG 300-M

Article No. 1100003130108



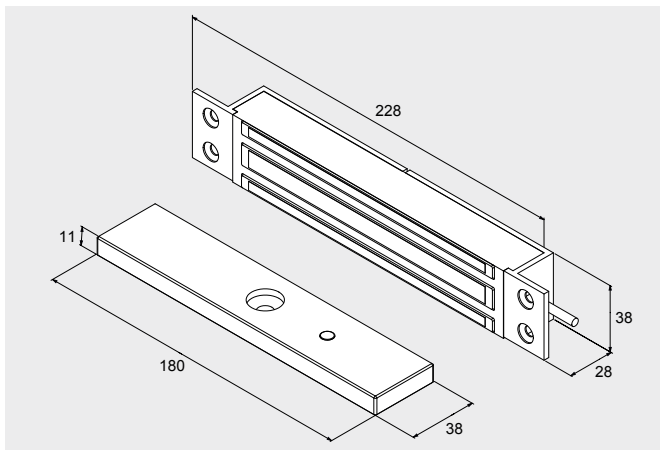
EMG 300-M A

Article No. 1100003130109



EMG 600-M / EMG 600-M A

Single mortise mounted maglock for medium security applications. Aluminum housing.
Typical use case: interior sliding doors. Mounting material included.



Size L x H x W (mm)
Maglock 228 x 38 x 28
Armature plate 180 x 38 x 11

EMG 600-M	
Holding force	up to 600 lbf
Voltage	24 V DC (default) 12 V DC selectable
Current input at 12 V DC	480 mA ±10%
Current input at 24 V DC	240 mA ±10%
Operating temperature	-10 to 55°C 14 to 131°F
Operating principle	Fail-safe (unlocked if power is off)

EMG 600-M

Article No. 1100003130217



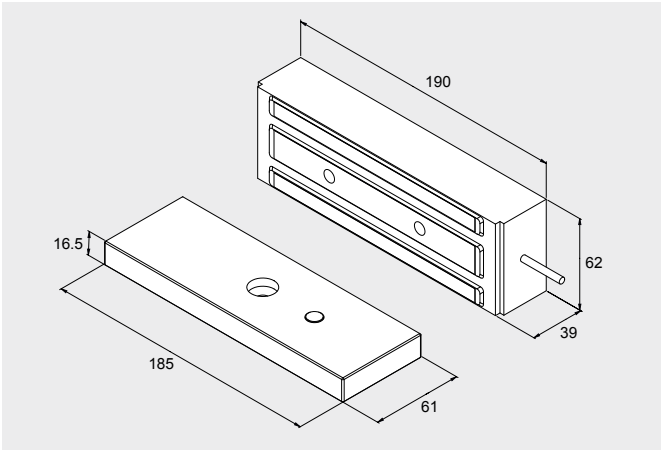
EMG 600-M A

Article No. 1100003130218



EMG 1200-M / EMG 1200-M A

Single mortise mounted maglock for medium to high security applications.
Aluminum housing. Mounting material included.



Size L x H x W (mm)
Maglock 190 x 62 x 39
Armature plate 185 x 61 x 16.5

EMG 1200-M	
Holding force	up to 1200 lbf
Voltage	24 V DC (default) 12 V DC selectable
Current input at 12 V DC	420 mA ±10%
Current input at 24 V DC	210 mA ±10%
Operating temperature	-10 to 55°C 14 to 131°F
Operating principle	Fail-safe (unlocked if power is off)

EMG 1200-M

Article No. 1100003130317



EMG 1200-M A

Article No. 1100003130318



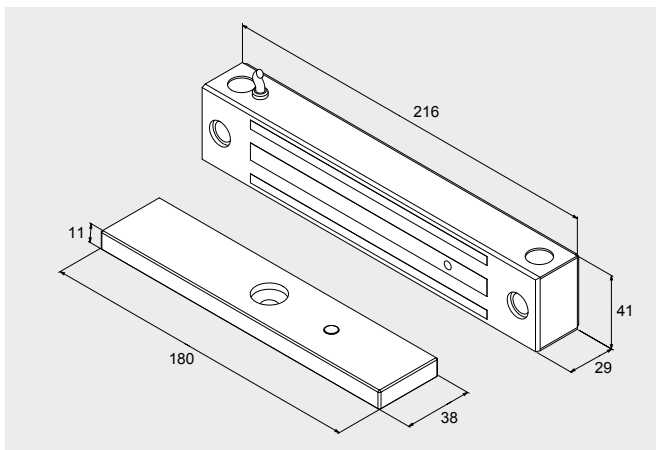


EMG Weather Resistant

Typ	Article No.	Holding force (lbf)	Monitoring
			lock status A
EMG 600-W A	1100003130219	600	●
EMG 1200-W A	1100003130319	1200	●
EMG 1500-W A	1100003130320	1500	●

EMG 600-W A

Single weather resistant maglock for low to medium security outdoor applications. Stainless steel housing.
Typical use case: exterior doors or gates. Mounting bracket and installation material included. Other bracket options described in chapters "EMG Introduction" and "Mounting Brackets".



Size L x H x W (mm)
Maglock 216 x 41 x 29
Armature plate 180 x 38 x 11

EMG 600-W A	
Holding force	up to 600 lbf
Voltage	24 V DC (default) 12 V DC selectable
Current input at 12 V DC	480 mA ±10%
Current input at 24 V DC	240 mA ±10%
Operating temperature	-10 to 55°C 14 to 131°F
Operating principle	Fail-safe (unlocked if power is off)

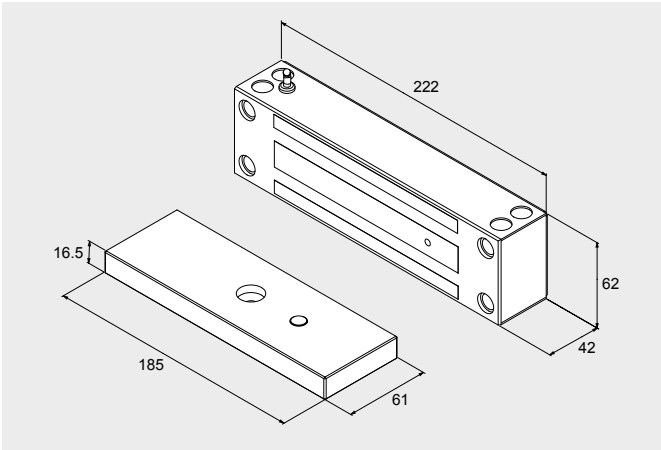
EMG 600-W A

Article No. 1100003130219



EMG 1200-W A

Single weather resistant maglock for medium security outdoor applications. Stainless steel housing.
Typical use case: exterior doors or gates. Mounting bracket and installation material included. Other bracket options described in chapters "EMG Introduction" and "Mounting Brackets".



Size L x H x W (mm)
Maglock 222 x 62 x 42
Armature plate 185 x 61 x 16.5

EMG 1200-W A	
Holding force	up to 1200 lbf
Voltage	24 V DC (default) 12 V DC selectable
Current input at 12 V DC	420 mA ±10%
Current input at 24 V DC	210 mA ±10%
Operating temperature	-10 to 55°C 14 to 131°F
Operating principle	Fail-safe (unlocked if power is off)

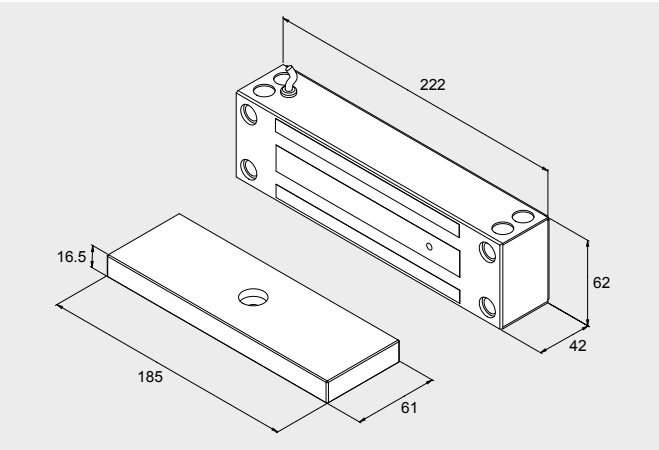
EMG 1200-W A

Article No. 1100003130319



EMG 1500-W A

Single weather resistant maglock for high security outdoor applications. Stainless steel housing.
Typical use case: exterior doors or gates. Mounting bracket and installation material included. Other bracket options described in chapters "EMG Introduction" and "Mounting Brackets".



Size L x H x W (mm)
Maglock 222 x 62 x 42
Armature plate 185 x 61 x 16.5

EMG 1500-W A	
Holding force	up to 1500 lbf
Voltage	24 V DC (default) 12 V DC selectable
Current input at 12 V DC	480 mA ±10%
Current input at 24 V DC	240 mA ±10%
Operating temperature	-10 to 55°C 14 to 131°F
Operating principle	Fail-safe (unlocked if power is off)

EMG 1500-W A

Article No. 1100003130320



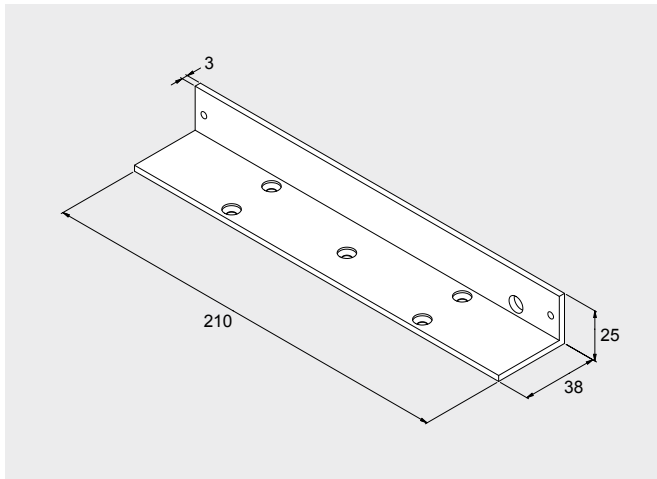


Mounting Brackets

The bracket terminology is described in the chapter "EMG Introduction".

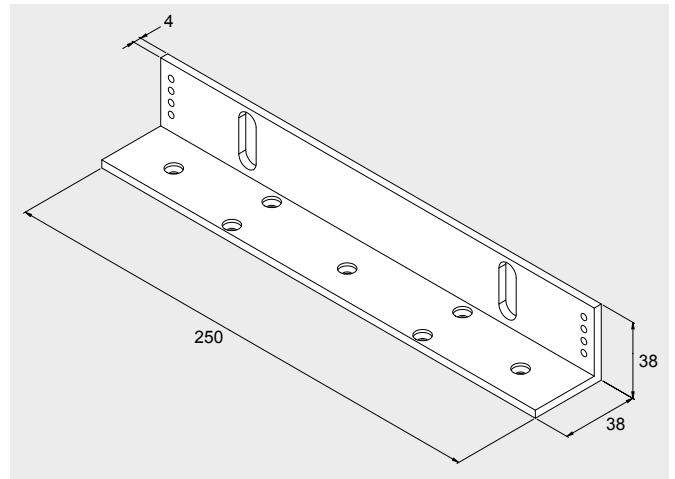
The combination matrix indicates which brackets are suitable for which maglock types.

L Brackets / LC Bracket



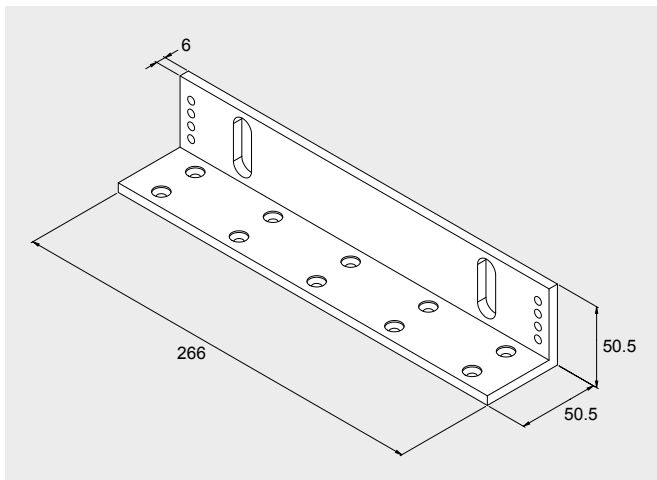
EMG-B 300 L

Article No. 1100003130501



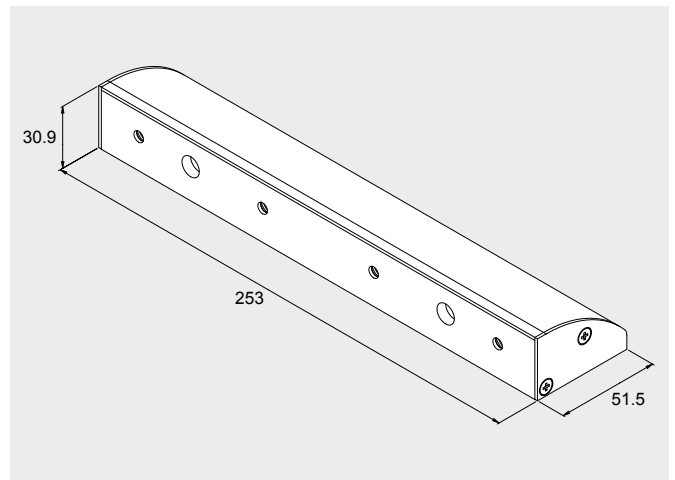
EMG-B 600 L

Article No. 1100003130507



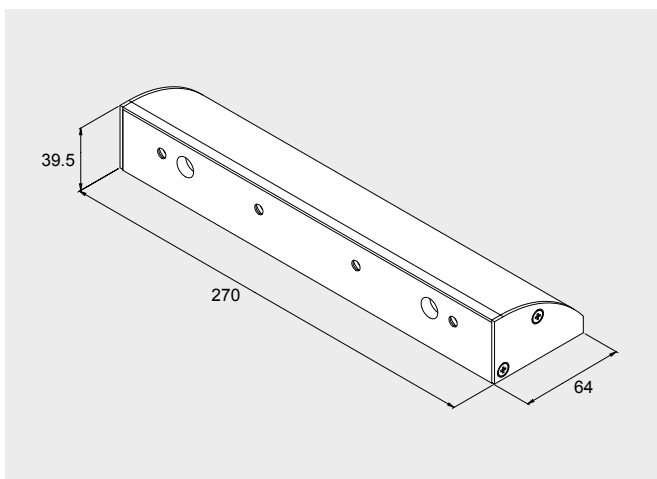
EMG-B 1200 L

Article No. 1100003130523



EMG-B 600 LC

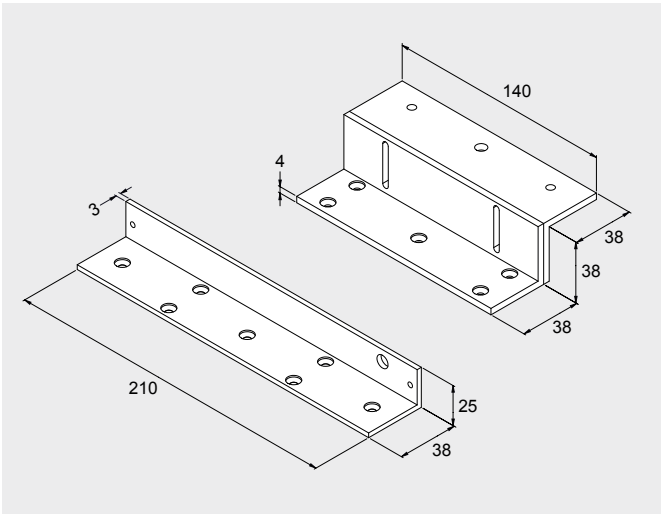
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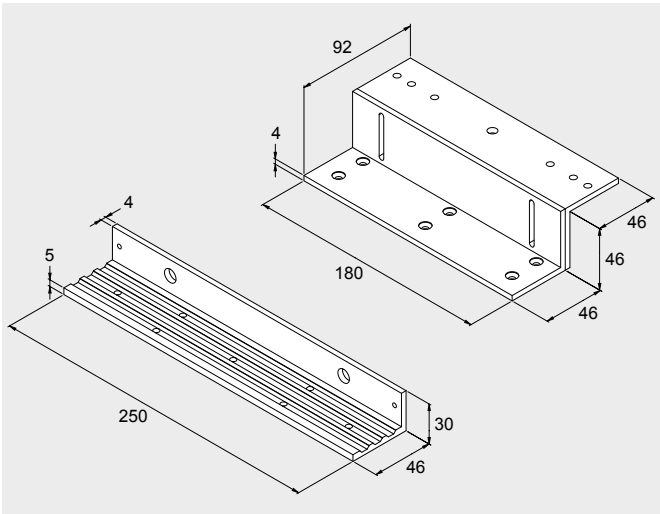
EMG-B 1200 LC

Article No. 1100003130525

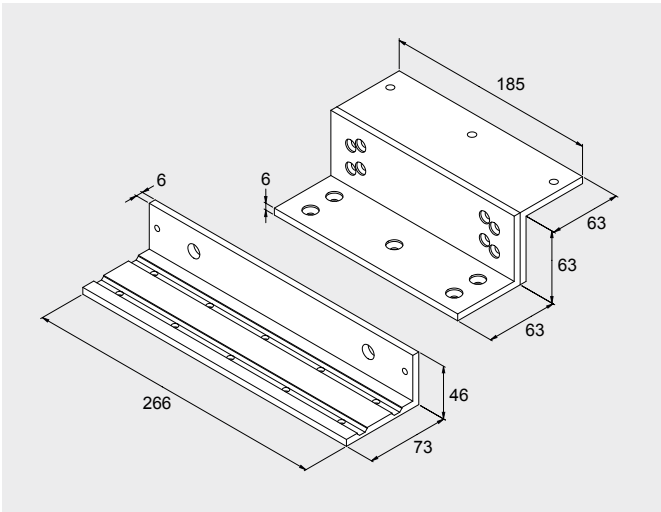
LZ Brackets / LZC Bracket



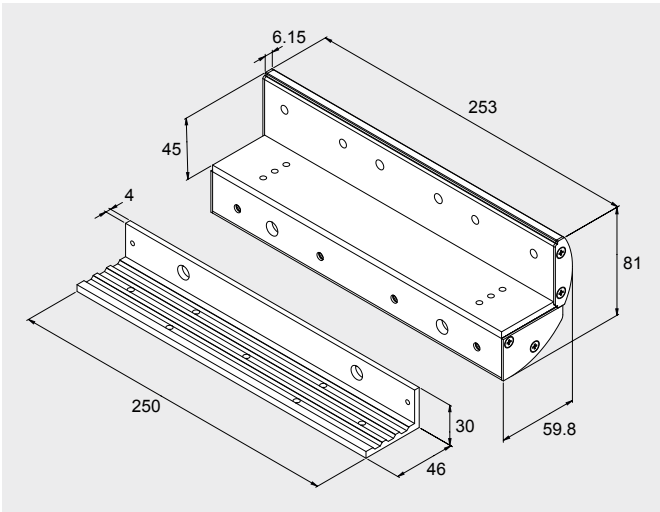
EMG-B 300 LZ Article No. 1100003130503



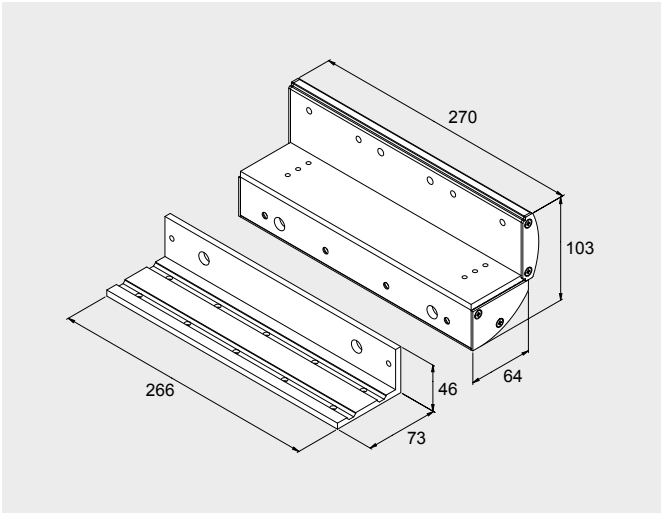
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EMG-B 1200 LZ Article No. 1100003130527

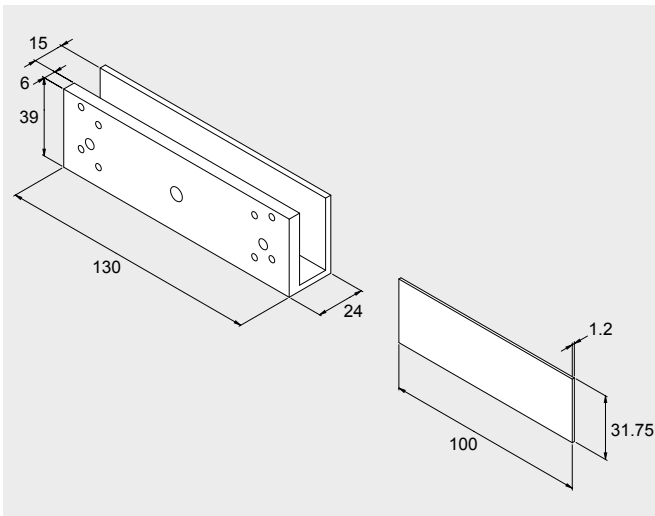


EMG-B 600 LZC Article No. 1100003130513



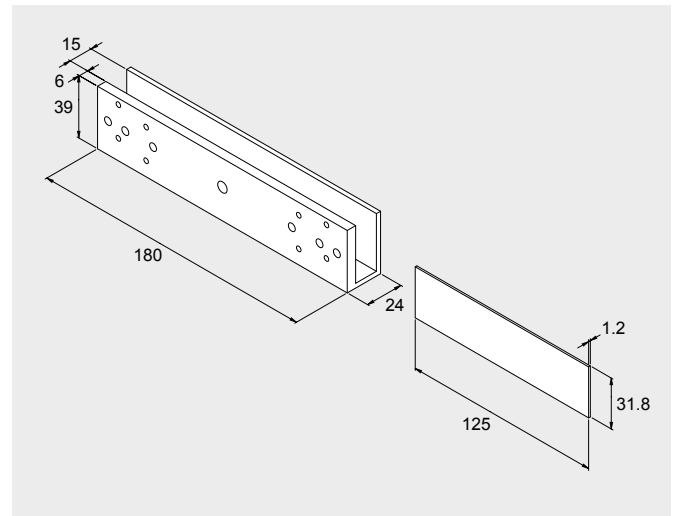
EMG-B 1200 LZC Article No. 1100003130529

U Brackets / UU Bracket



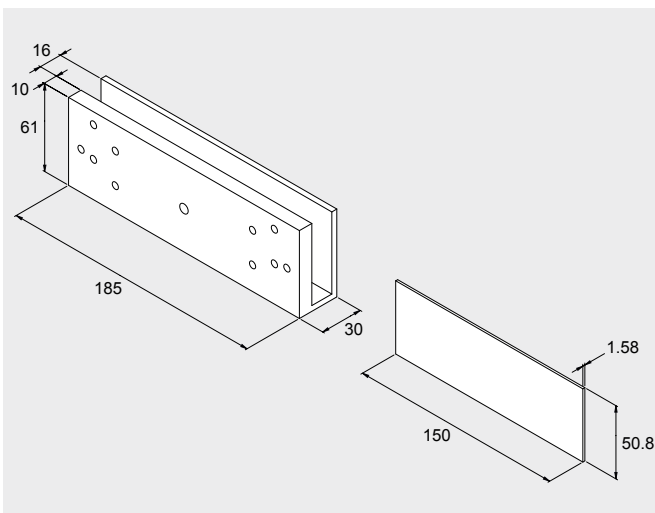
EMG-B 300 U

Article No. 1100003130505



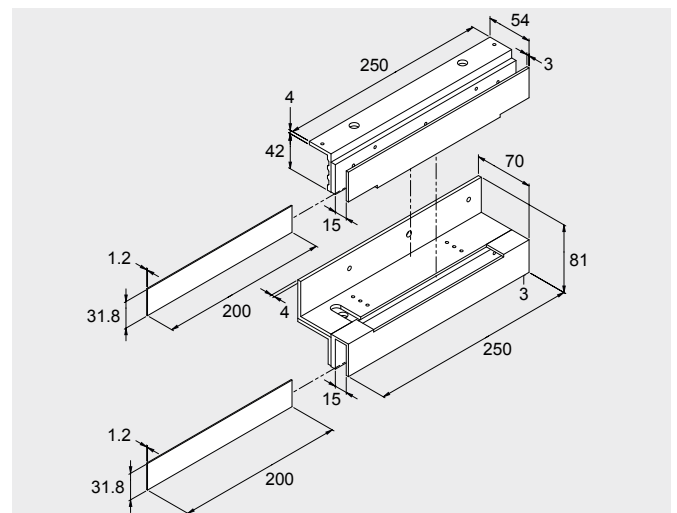
EMG-B 600 U

Article No. 1100003130515



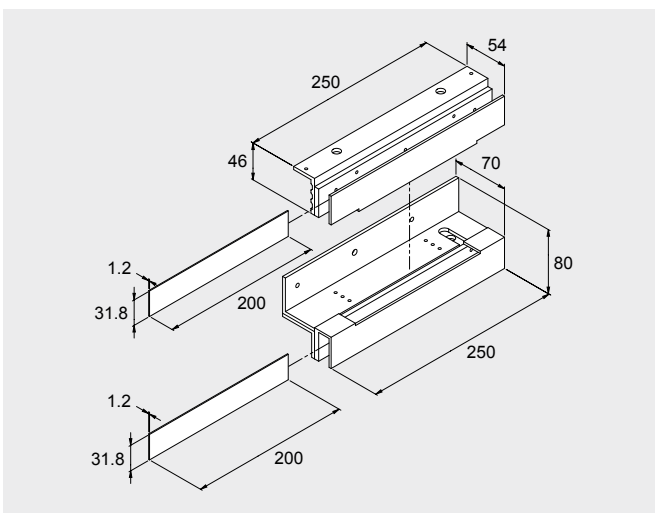
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Article No. 1100003130531



EMG-B 600 UU

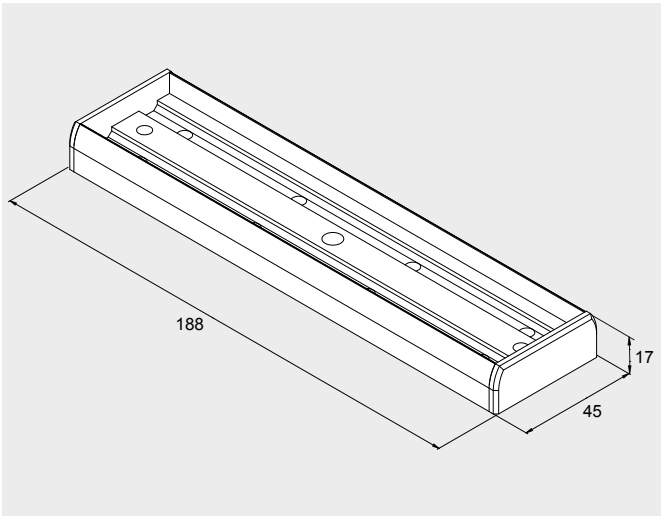
Article No. 1100003130517



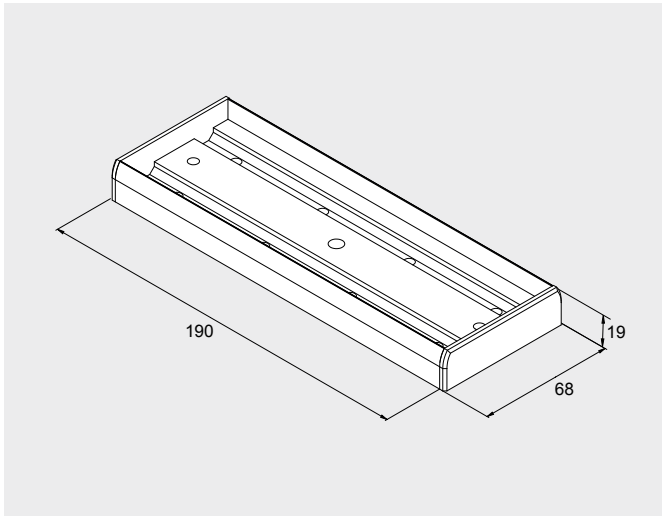
EMG-B 600 UUR

Article No. 1100003130543

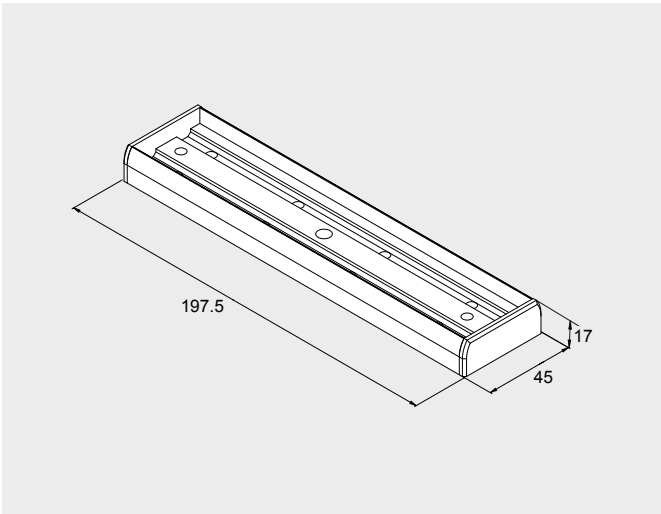
AH / AHC Brackets



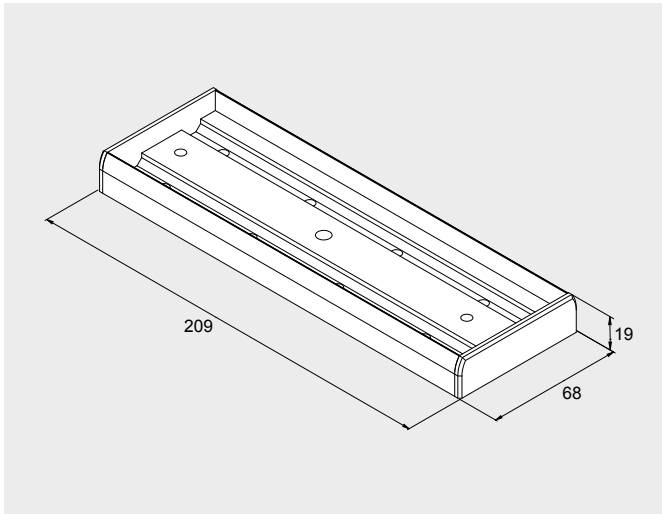
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EMG-B 1200 AH Article No. 1100003130533

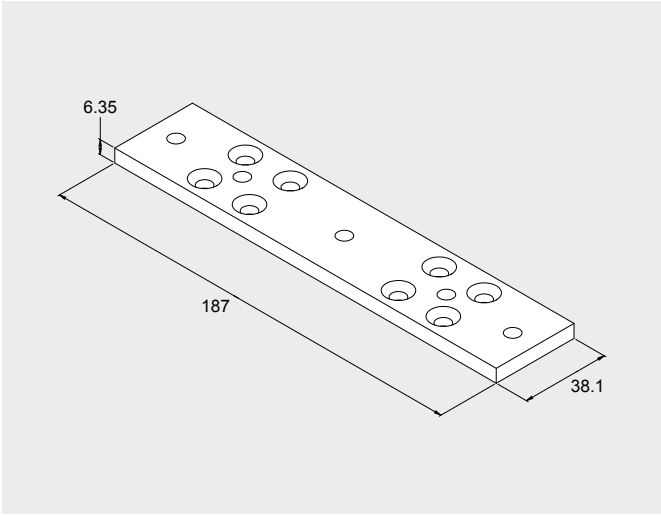


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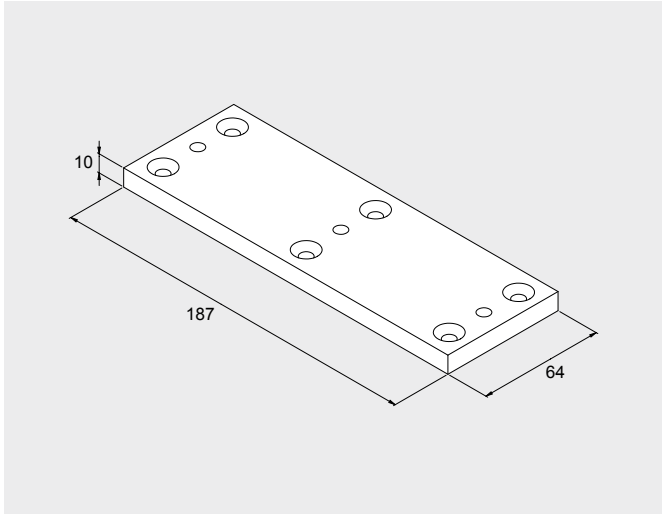


EMG-B 1200 AHC Article No. 1100003130545

AB Bracket

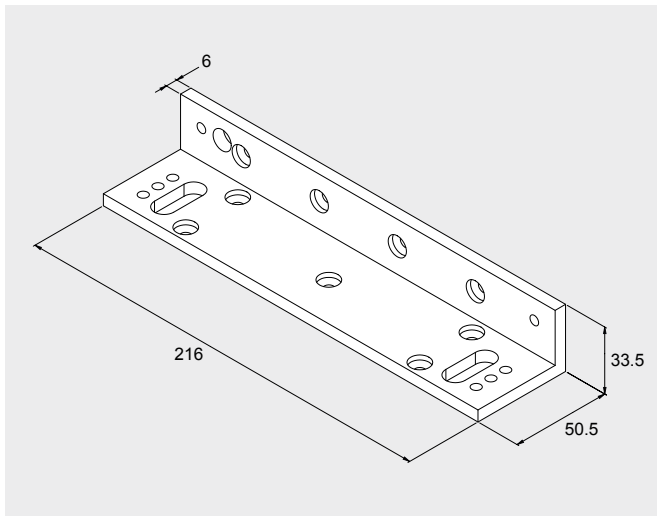


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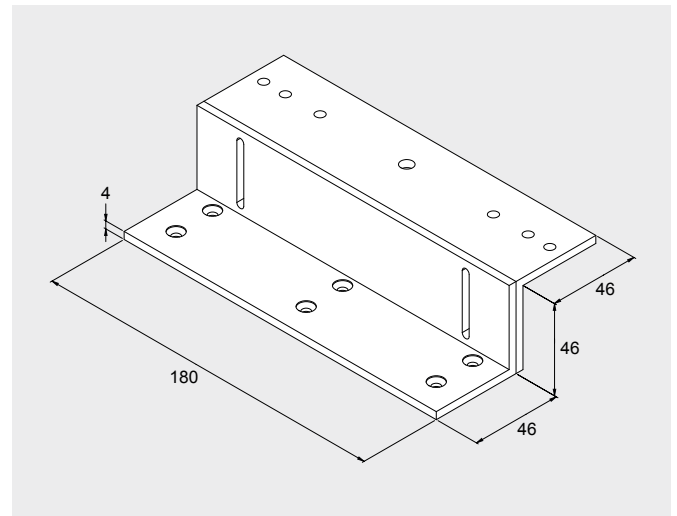
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W Brackets



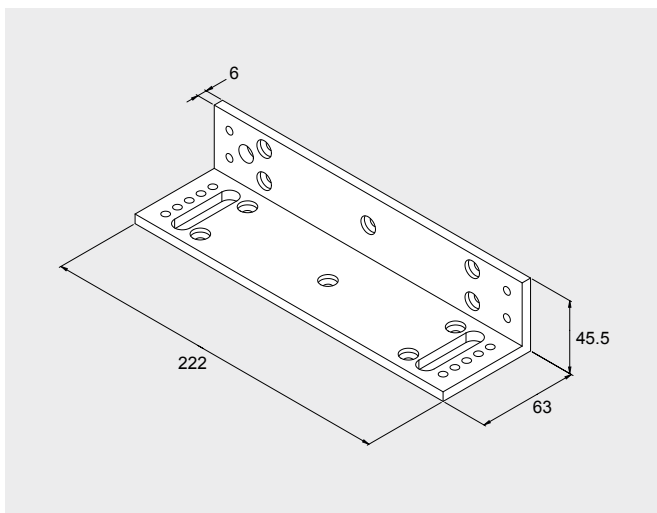
EMG-B 600-W L

Article No. 1100003130537



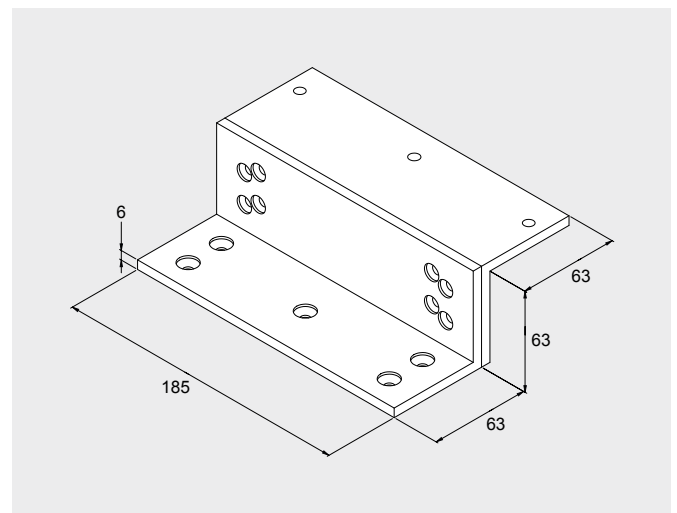
EMG-B 600-W Z

Article No. 1100003130538



EMG-B 1200-W L

Article No. 1100003130539



EMG-B 1200-W Z

Article No. 1100003130540



Our Sustainability Commitment

We are committed to foster a sustainable development along our entire value chain in line with our economic, environmental and social responsibilities toward current and future generations.

At dormakaba, we are dedicated to find sustainable solutions that reduce the environmental impact of both our operations and our products. To ensure transparency regarding our products' environmental impacts, we offer credentials such as Environmental Product Declarations (EPD), Health Product Declarations (HPD), and Recycled Content Certificates. These sustainability-related credentials provide insights into energy efficiency, material composition, recyclability, and compliance, empowering our customers to make informed choices and support their own sustainability objectives.

Download our sustainability-related product declarations and certifications here: <https://www.dormakabagroup.com/en/sustainability/product-declarations>



Our offering

Access Automation Solutions

Entrance Automation
Entrance Security



Access Control Solutions

Electronic Access & Data
Escape and Rescue Systems
Lodging Systems



Access Hardware Solutions

Door Closers
Architectural Hardware
Mechanical Key Systems



Services

Technical Support
Installation and commissioning
Maintenance and Repair



EN, 04/2025
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[dormakaba.com](https://www.dormakaba.com)

dormakaba
International Holding AG
Hofwissenstrasse 24
CH-8153 Rümlang
T +41 44 818 90 11
info@dormakaba.com
dormakaba.com