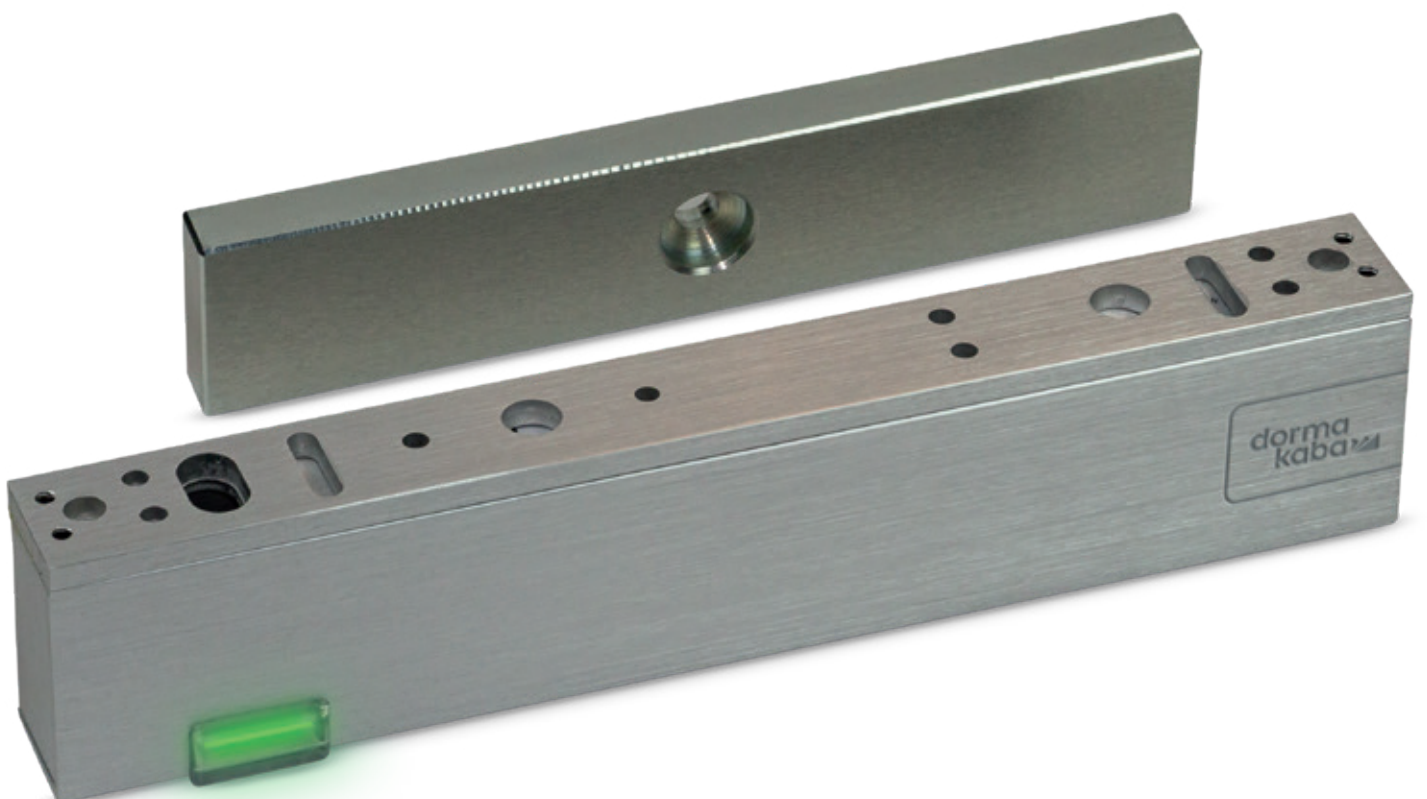


EM

Premium- Electromagnetic Locks



Contents

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EM – Premium Electromagnetic Locks

EM premium electromagnetic locks range offers a wide range of locking solution for variety of door situations. All EM range products are using materials in premium quality, which enables excellent performance against remanence and corrosion.

Customer Benefits

- Easy Installation
- Reliable holding strength
- No residual magnetism
- 1.000.000 test cycles
- High corrosion resistance: grade 3 according to EN 1670 (salt spray tested to 96 hours)
- 10-year warranty for premium standard locks and weather-resistant locks; 2-year warranty for Shear locks and hybrid locks.
- RoHS and REACH compliant, CE marked

Type	Features					Door type					
	Holding force class	Installation	Dual voltage 12/24 V DC	green /red LED	Lock status sensor	Single/ Double-leaf doors	Outswing doors	Inswing doors	Glass doors	Non-drill through	Order No.
Premium Standard Locks											
EM 1800 AH	1.800 N	Surface	●	–	●	Single	–	●	●		19860000
EM 1800 AM	1.800 N	Mortise	●	–	●	Single	–	–	–	–	19860001
EM 3000-GL AH	3.000 N	Surface	●	●	●	Single	●	●	●	●	19860103
EM 3000-T AM	2.500 N	Mortise	●	–	●	Single	–	–	–	–	19860110
EM 5300-GL AH	5.300 N	Surface	●	●	●	Single	●	●	–	●	19860206
EM 5300-2 GL AH	5.300 N x2	Surface	●	●	●	Double	●	●	–	●	19860203
Weather-resistant Locks											
EM 7500-F AH	7.500 N	Surface	●	–	●	Single	–	–	–	–	19860300
EM 7500-S AH	7.500 N	Surface	●	–	●	Single	–	–	–	–	19860301
Shear Locks											
EM 7500-D AM	7.500 N	Mortise	●	–	●	Single	–	–	–	–	19860320
Hybrid Locks											
EM 6900-GL AH B	15.000 N	Surface	●	●	●	Single	–	–	–	–	19860241
EM 6900 AM B	15.000 N	Mortise	●	–	●	Single	–	–	–	–	19860242

● yes – no

Note: The holding force on the door is dependent on the specific type of installation.

Article designations, abbreviations

The article designation indicates the holding force and the characteristics of the electromagnetic locks, e.g. EM 1800 AH = 1800 N holding force with feedback function (A), designed for surfacemounting (H).

A = Lock Status Sensor

B = Buzzer

A built-in buzzer generates audible alarm.

D = Shear lock magnets

The special feature of these magnets lies in their electro-mechanical retention system (shear lock). Because of their design, they are also suitable for double-action doors.

F = Front mounted

GL = Electromagnetic lock with LED light panel

A Mega LED indicates the status.

H = Surface-mounted

M = Mortise-mounted

S = Side-mounted

Instead of being mounted on the front face, the electromagnetic lock is loaded at 90°– e.g. for use on sliding doors.

T = Slender design

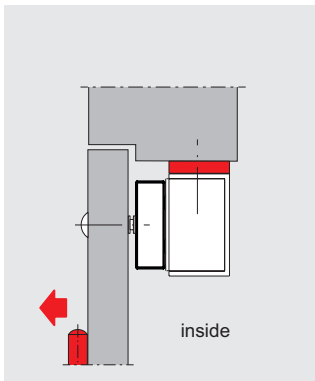
Because of its particularly narrow width of 35.5 mm, the electromagnetic lock can also be installed in slender narrow-stile profiles.

Early Warning

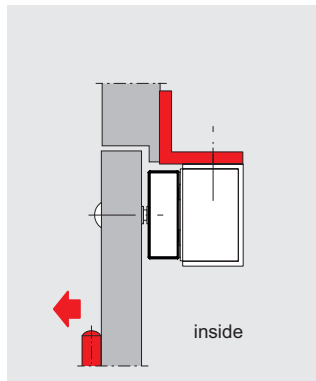
A maglock fitted with pressure sensor allows the unit to send an alarm before the access would be forced without authorization. This locking model warns before the access is breached, which generates a unique advantage for door security.

2 = double lock

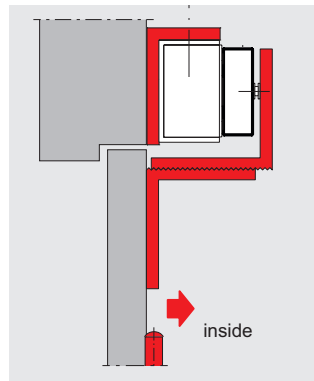
Regular installation



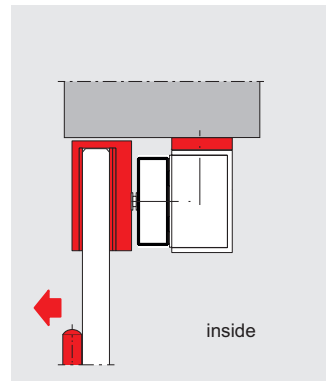
L-bracket for narrow door frame



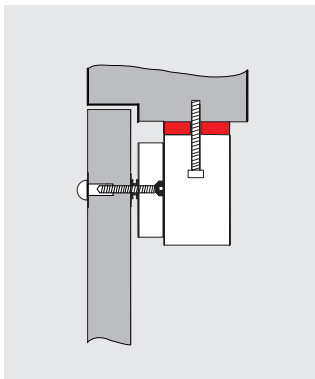
L+Z bracket for inswing doors



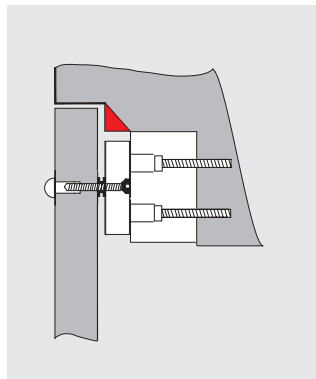
U-bracket for frameless glass doors



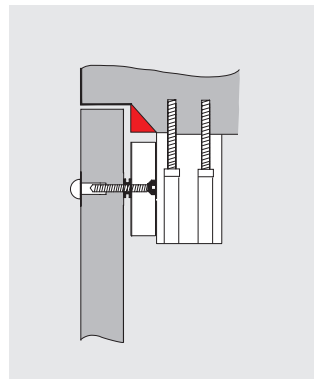
H version



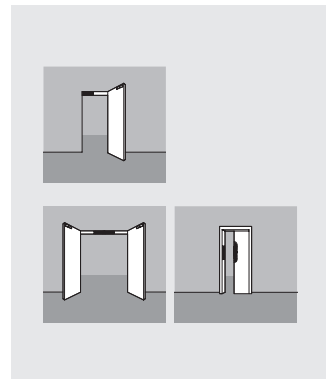
F version



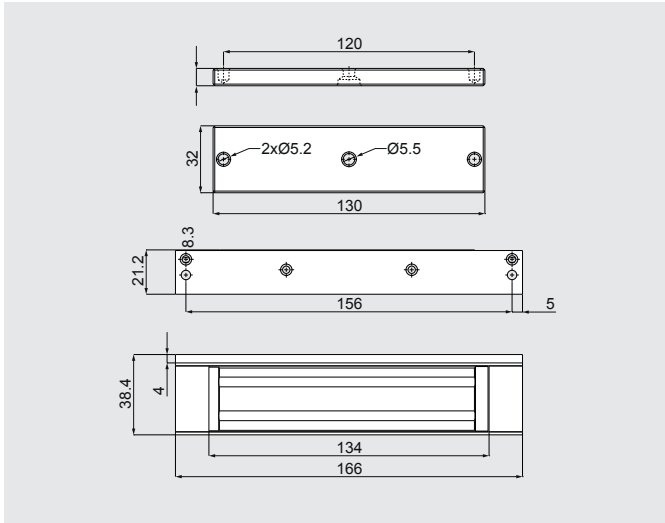
S version







M version



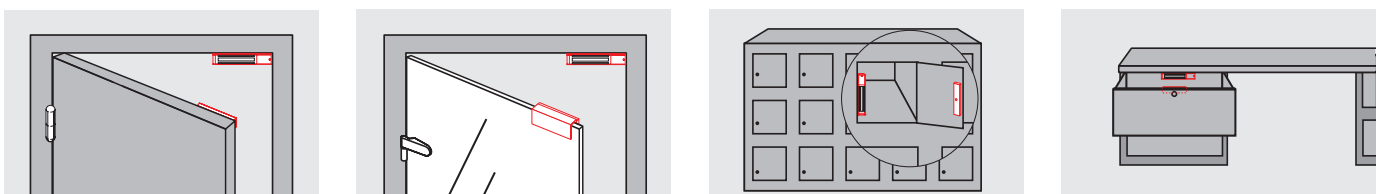
EM 1800 AH



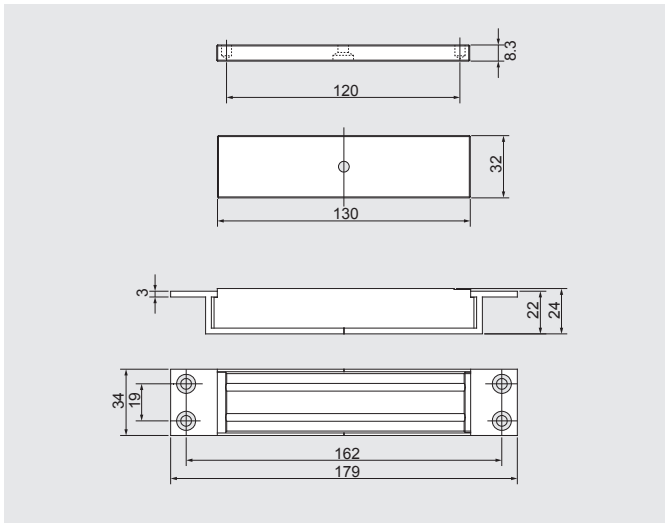
Technical data	
Holding force	1.800 N
Installation	Surface-mounted
Magnet housing dimensions	166L x 39W x 21H mm
Armature plate dimensions	130L x 31W x 8H mm
Operation principle	Fail-safe (power to lock)
Power supply	12/24 V DC
Current	370/185 mA
Lock status sensor	yes
LED indication LSS	no
Operation temperature	-40 to 60°C
IP class	20
Certification	RoHS, REACH, CE
Warranty	10 years
Applicaton	Interior (light internal doors, glass doors, cabinets, drawers, etc.)

Specification text	Order No.
 <p>EM 1800 AH Single surface-mounted electromagnetic lock with up to 1800 N holding force, with lock status sensor, anodized aluminium finish</p>	19860000
 <p>AMZL 1800 L+Z bracket for EM 1800 AH</p>	19860090
 <p>UBG-10 1800 U-formed glass door bracket for fixing armature plate on 10 mm thick toughened glass doors, suitable for EM 1800 AH</p>	19860092
 <p>UBG-12 1800 U-formed glass door bracket for fixing armature plate on 12 mm thick toughened glass doors, suitable for EM 1800 AH</p>	19860093

Typical Application



EM 1800 AM



Technical data

Holding force	1800 N
Installation	Mortise-mounted
Magnet housing dimensions	179L x 34W x 24H mm
Armature plate dimensions	130L x 32W x 9H mm
Operation principle	Fail-safe (power to lock)
Power supply	12/ 24 V DC
Current	370/ 185 mA
Lock status sensor	yes
LED indication LSS	no
Operation temperature	-40 to 60°C
IP class	20
Certification	RoHS, CE
Warranty	10 years
Applicaton	Interior (light internal doors, cabinets, drawers, etc.)

Specification text

Order No.

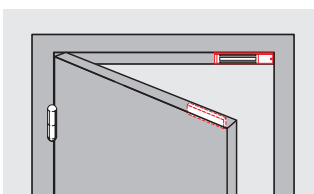


EM 1800 AM

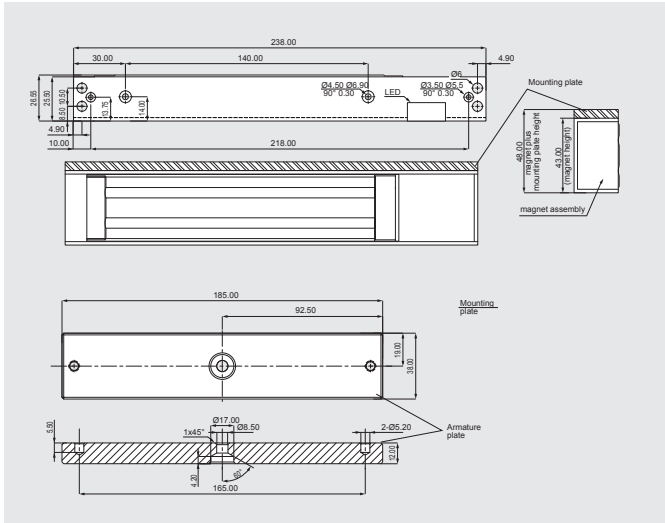
Single mortise-mounted electromagnetic lock with up to 1800 N holding force, with lock status sensor

19860001





Typical Application

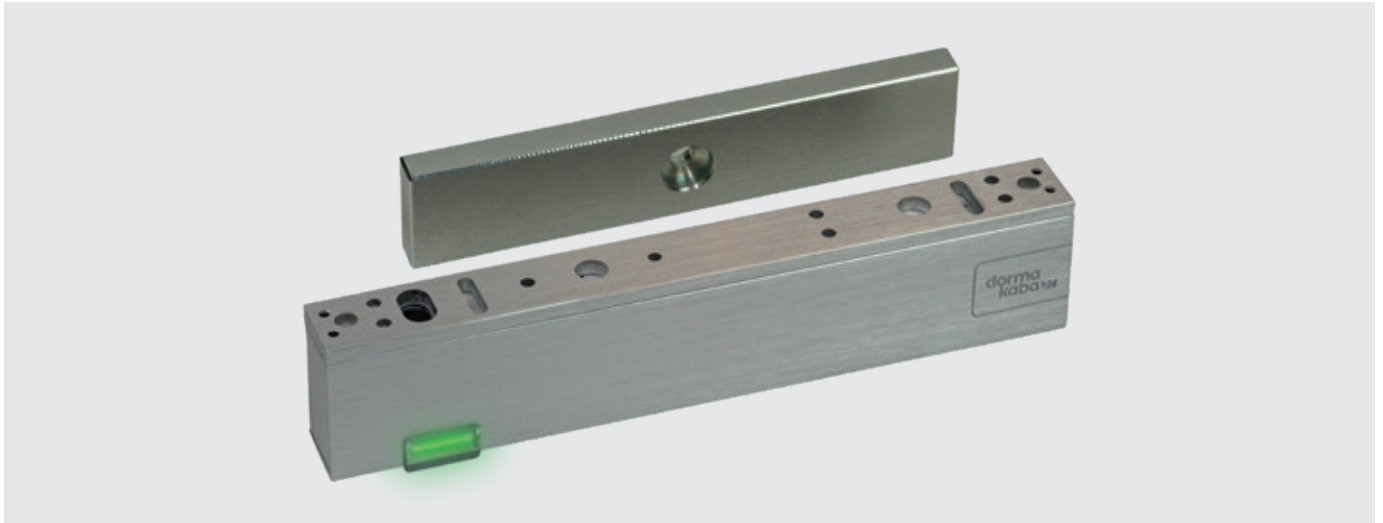


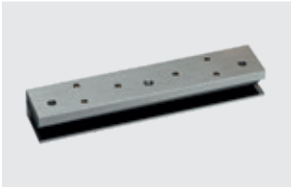

EM 3000-GL AH



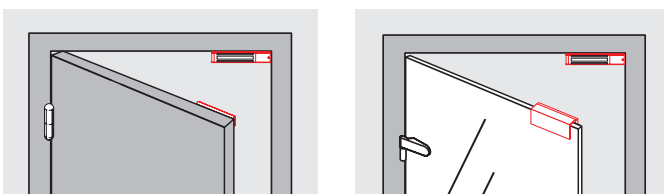
Technical data	
Holding force	3000 N
Installation	Surface-mounted
Magnet housing dimensions	238L x 48W x 26,55H mm
Armature plate dimensions	185L x 38W x 12H mm
Operation principle	Fail-safe (power to lock)
Power supply	12/ 24 V DC
Current	480/240 mA
Lock status sensor	yes
LED indication LSS	yes
Operation temperature	-40 to 60°C
IP class	IP 43 (installed)
Certification	RoHS, REACH, CE
Warranty	10 years
Applicaton	Interior (sliding doors, internal swing doors with access control equipment which does not have to be resistant to heavy attacks)

	Specification text	Order No.
	EM 3000-GL AH Single surface-mounted electromagnetic lock with up to 3000 N holding force, with lock status sensor and mega-LED status indicator, anodized aluminium finish	19860103
	AML 3000-GL L bracket for EM 3000-GL AH	19860185
	AMZL 3000-GL L+Z bracket for EM 3000-GL AH	19860186
	AMF 3000 Armature plate holder for EM 3000	19860192

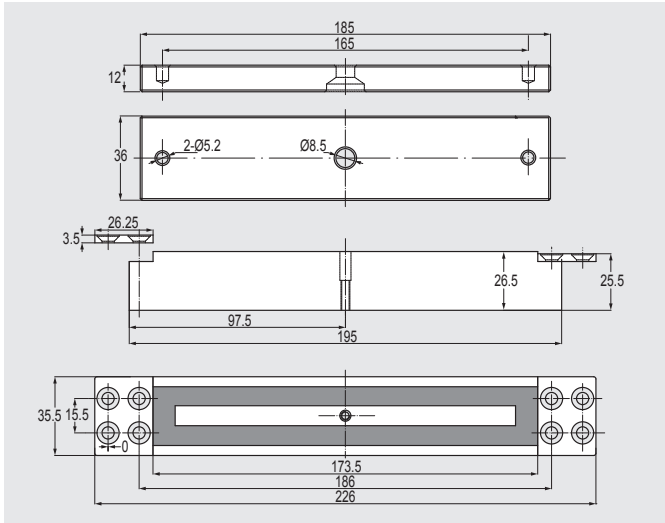


	Specification text	Order No.
	UBG-10 3000 U-formed glass door bracket for fixing armature plate on 10 mm thick glass doors, suitable for EM 3000	19860194
	UBG-12 3000 U-formed glass door bracket for fixing armature plate on 12 mm thick glass doors, suitable for EM 3000	19860195

Typical Application



EM 3000-T AM



Technical data

Holding force	2500 N
Installation	Mortise-mounted
Magnet housing dimensions	195L x 35,5W x 25,5H mm
Armature plate dimensions	185L x 36W x 12H mm
Operation principle	Fail-safe (power to lock)
Power supply	12 / 24 V DC
Current	480/240 mA
Lock status sensor	yes
LED indication LSS	no
Operation temperature	-40 to 60°C
IP class	IP 43 installed
Certification	RoHS, REACH, REACH, CE
Warranty	10 years
Applicaton	Interior sliding doors, internal aluminium profile doors which does not have to be resistant to heavy attacks)

Specification text

Order No.

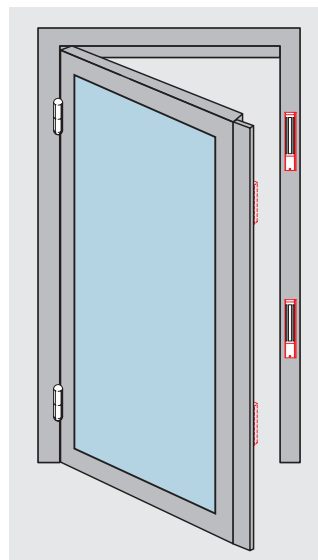
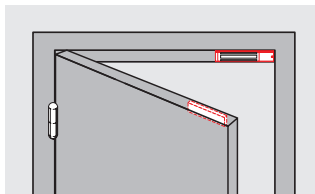


EM 3000-T AM

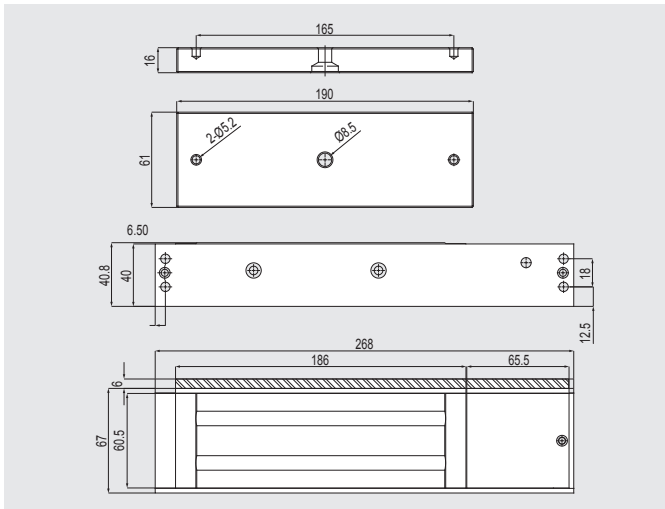
Single mortise-mounted electromagnetic lock with up to 2500 N holding force, with lock status sensor, with slender design

19860110

Typical Application



EM 5300-GL AH



Technical data

Holding force	5300 N
Installation	Surface-mounted
Magnet housing dimensions	268L x 73W x 40H mm
Armature plate dimensions	190L x 61W x 16H mm
Operation principle	Fail-safe (power to lock)
Power supply	12/ 24 V DC
Current	480/240 mA
Lock status sensor	yes
LED indication LSS	yes
Operation temperature	-40 to 60°C
IP class	IP 43 installed
Certification	RoHS, REACH, CE
Warranty	10 years
Application	Interior (entry doors fitted with access control systems)

Specification text

Order No.



EM 5300-GL AH

Single surface-mounted electromagnetic lock with up to 5300 N holding force, with lock status sensor and mega-LED indicator, anodized aluminium finish

19860206



AML 5300-GL

L-bracket for EM 5300-GL AH and EM 5300-2 AH
Two L-brackets are required for EM 5300-2 AH

19860291



AMZL 5300-GL

L+Z bracket for EM 5300-GL AH and EM 5300-2 AH
Two L+Z brackets are required for EM 5300-2 AH

19860290

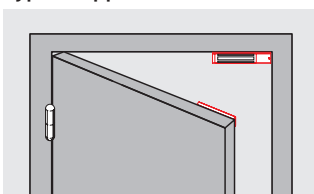


AMF 5300

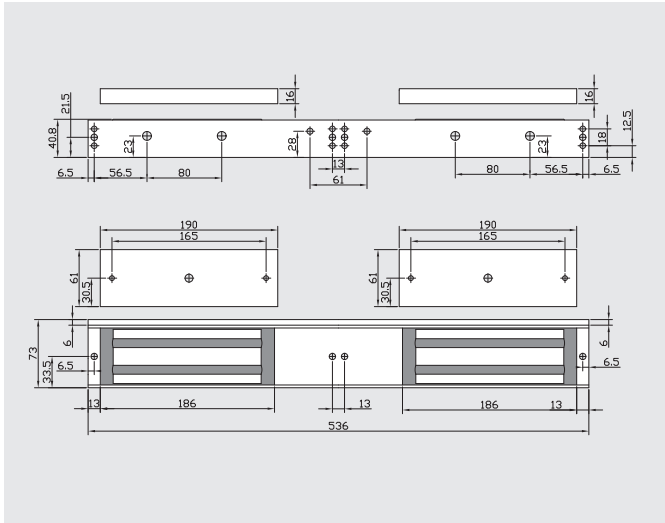
Armature plate holder for EM 5300-GL AH and EM 5300-2 AH
Two armature plate holder are required for EM 5300-2 AH

19860292





Typical Application



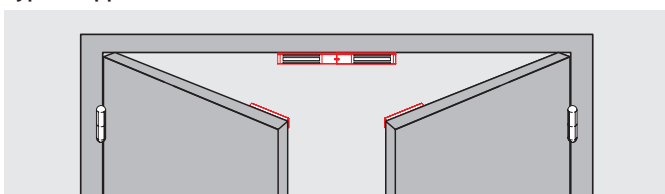
EM 5300-2 GL AH



Technical data	
Holding force	5300 N x 2 mag
Installation	Surface-mounted
Magnet housing dimensions	536L x 73W x 41H mm
Armature plate dimensions	190L x 61W x 16H mm x 2 pcs.
Operation principle	Fail-safe (power to lock)
Power supply	12/ 24 V DC
Current	480 mA/ 240 mA (each mag)
Lock status sensor	yes (each mag)
LED indication LSS	yes (each mag)
Operation temperature	-40 to 60°C
IP class	IP 43 installed
Certification	RoHS, REACH, CE
Warranty	10 years
Applicaton	Interior for double-leaf high resistant swing doors, entry doors fitted with high security access control systems)

Specification text	Order No.
 <p>EM 5300-2 GL AH Double surface-mounted electromagnetic lock with up to 5300 N holding force per mag, for double-leaf door, with lock status sensor and LED indicator, anodized aluminium finish</p>	19860203
 <p>AML 5300-GL L-bracket for EM 5300-GL AH and EM 5300-2 AH Two L-brackets are required for EM 5300-2 AH</p>	19860291
 <p>AMZL 5300-GL L+Z bracket for EM 5300-GL AH and EM 5300-2 AH Two L+Z brackets are required for EM 5300-2 AH</p>	19860290
 <p>AMF 5300 Armature plate holder for EM 5300-GL AH and EM 5300-2 AH Two armature plate holder are required for EM 5300-2 AH</p>	19860292

Typical Application

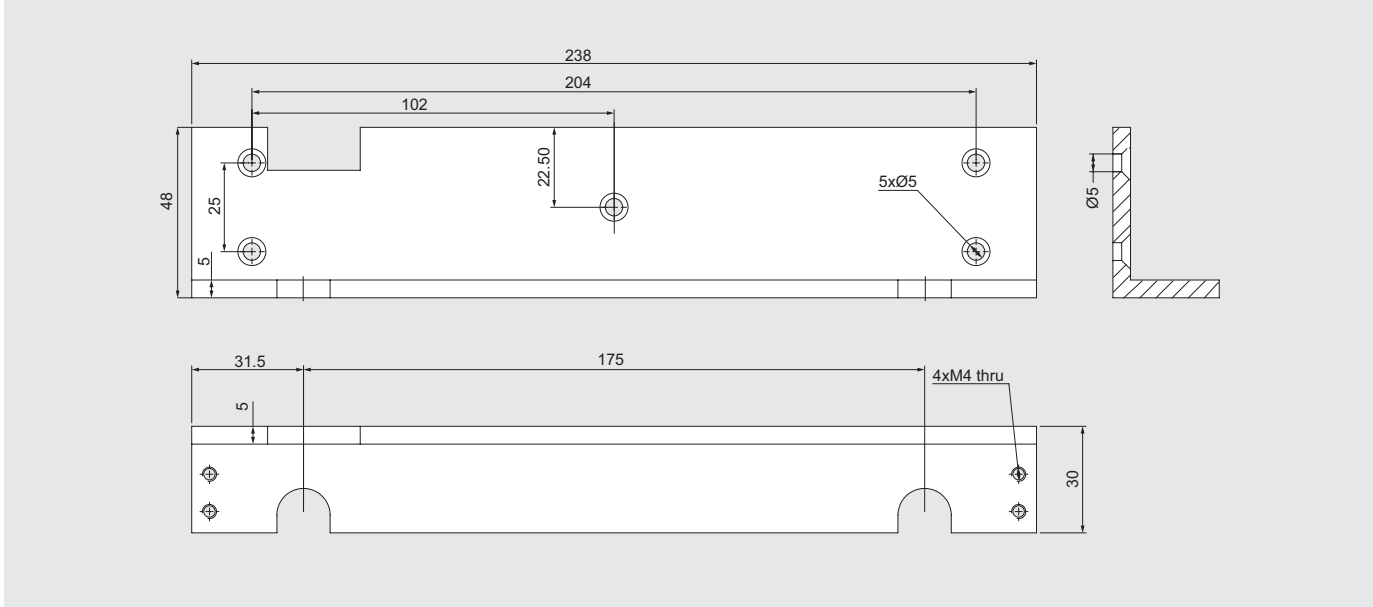


Accessories for premium standard locks

AML – L brackets

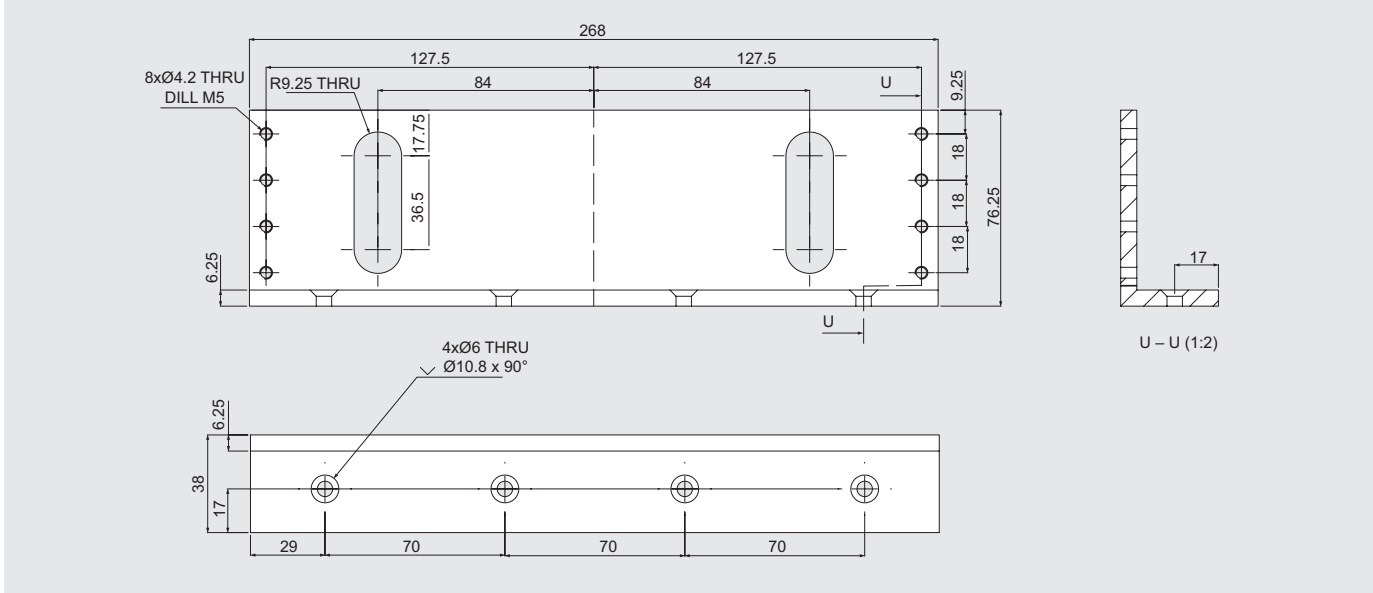
AML 3000-GL

(Order No.: 19860185)



AML 5300-GL

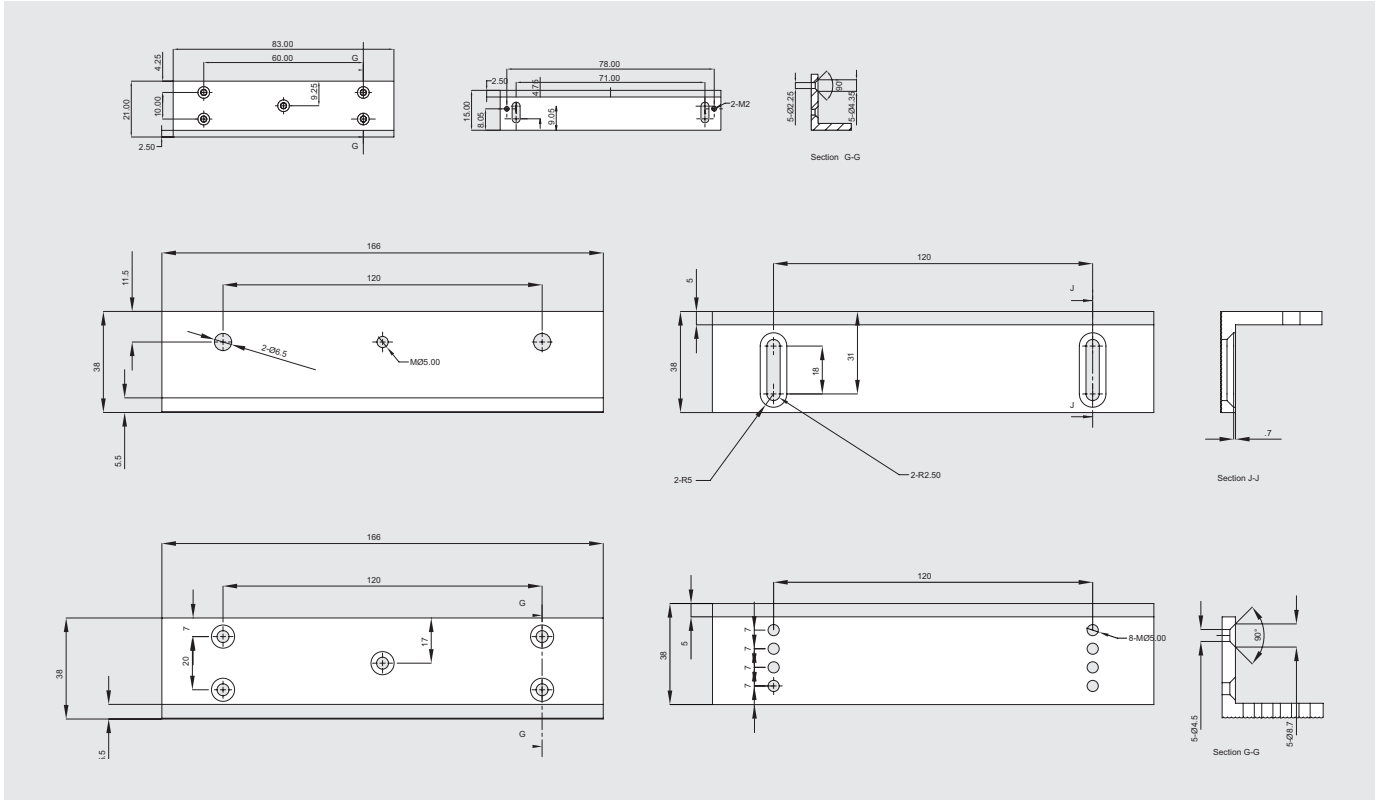
(Order No.: 19860291)



AMZL – L+Z brackets

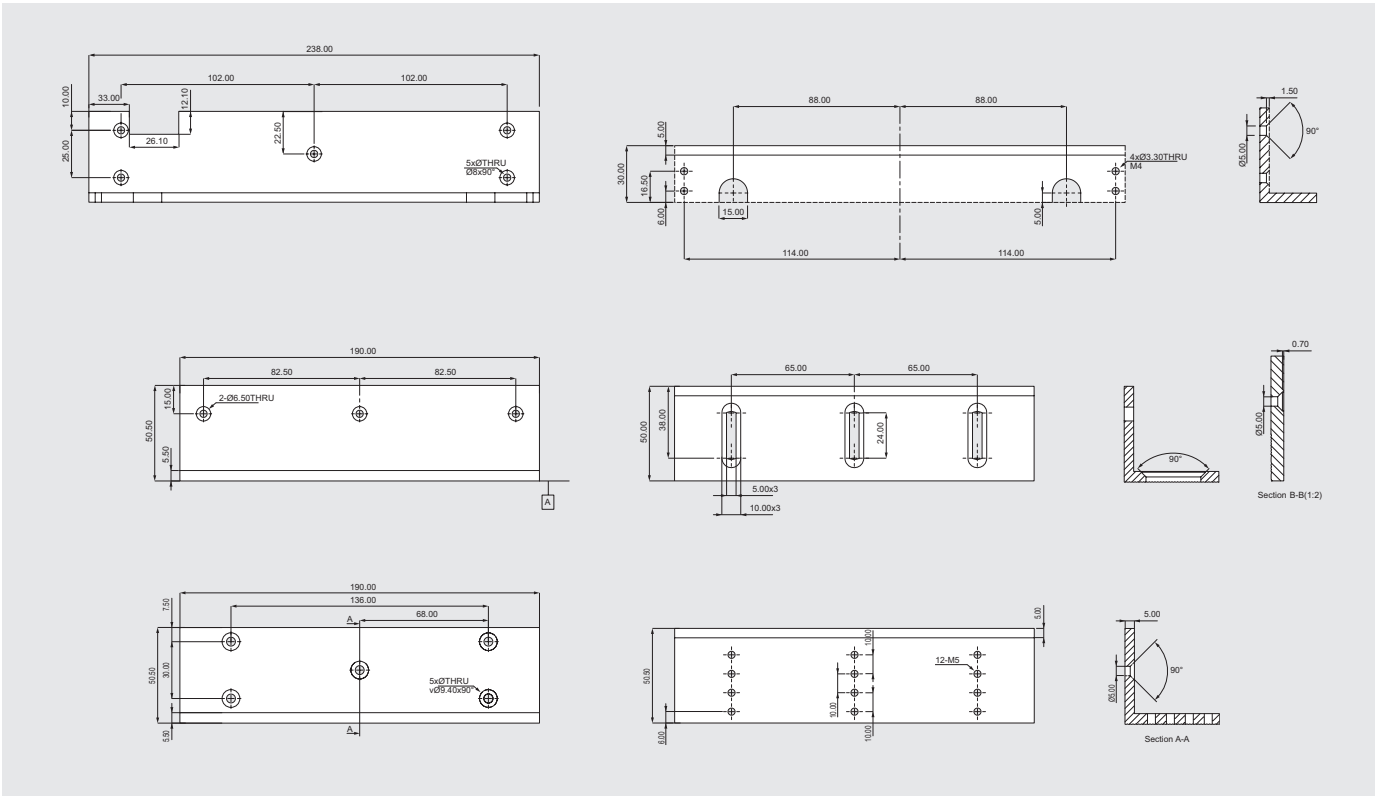
AMZL 1800

(Order No.: 19860090)



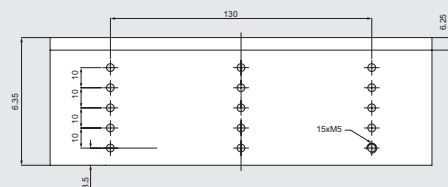
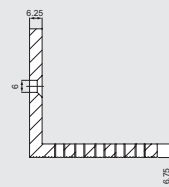
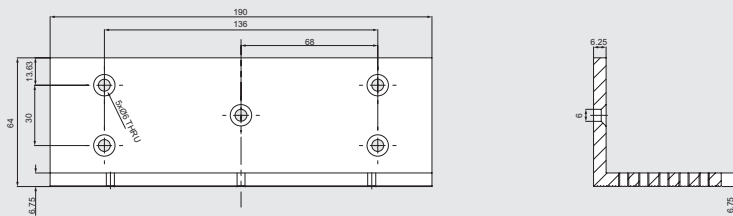
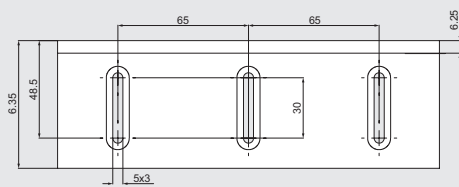
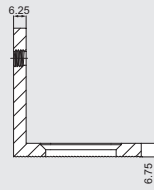
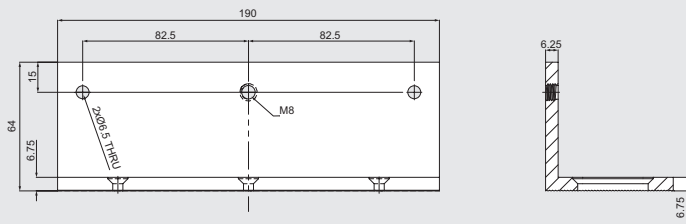
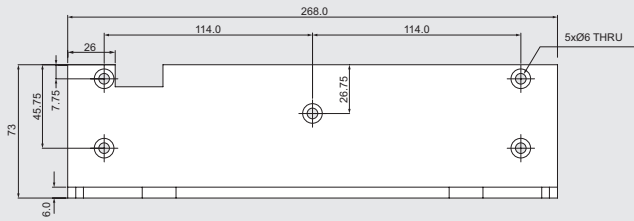
AMZL 3000-GL

(Order No.: 19860186)



AMZL 5300-GL

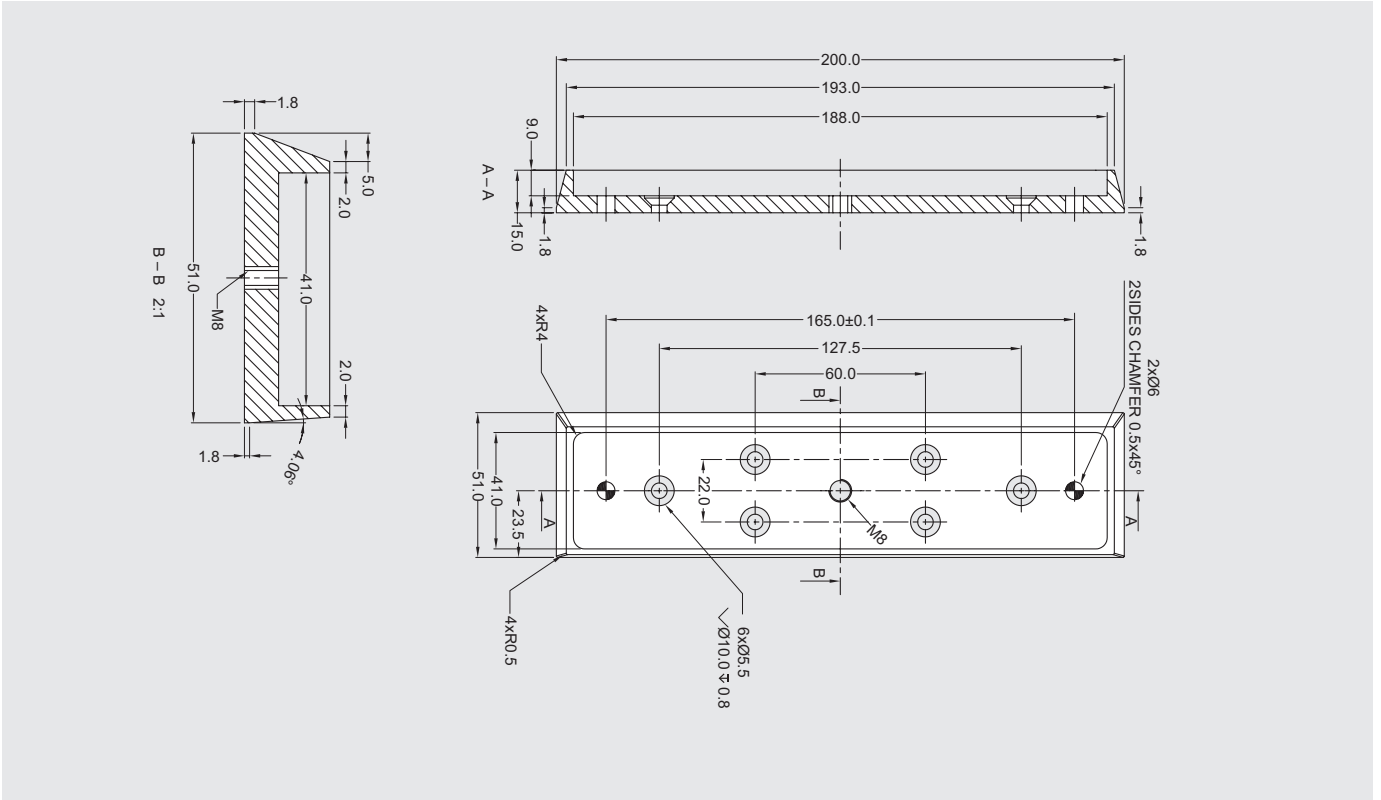
(Order No.: 19860290)



AMF – Armature plate holder

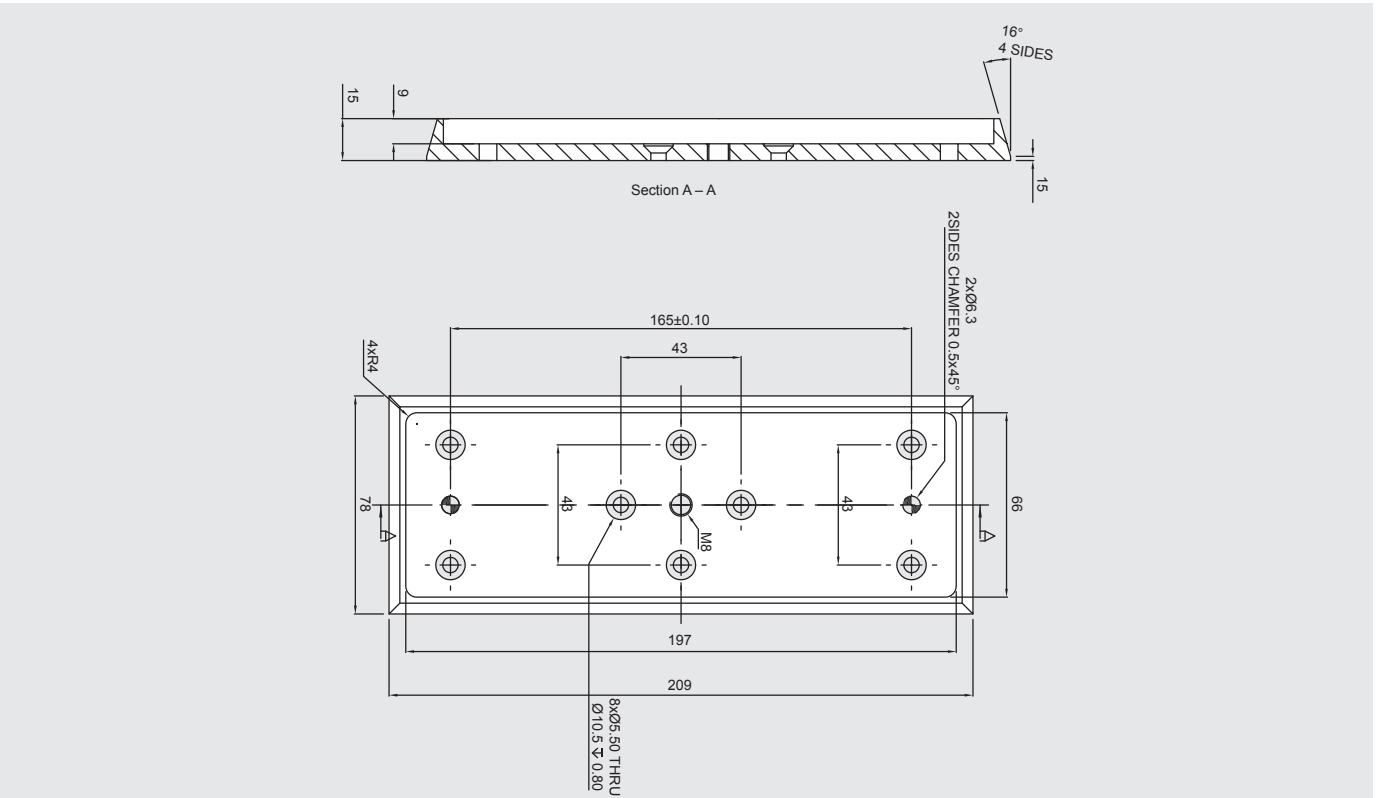
AMF 3000

(Order No.: 19860192)



AMF 5300

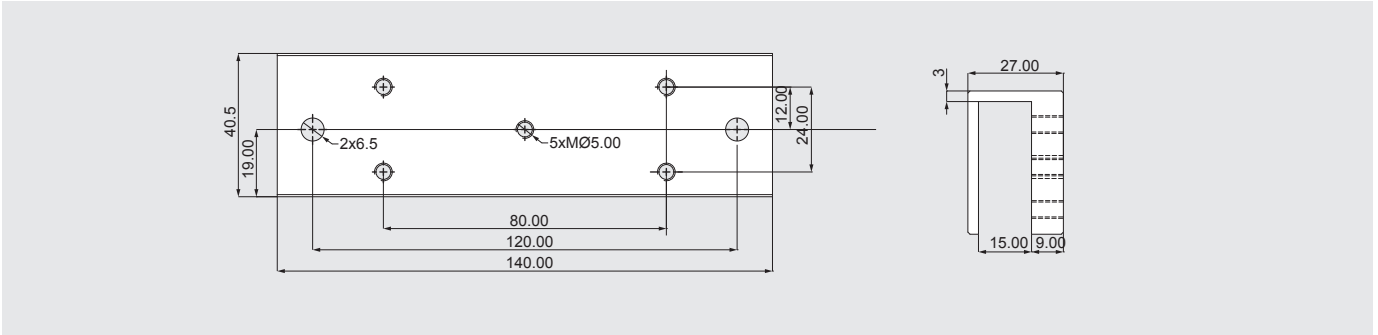
(Order No.: 19860292)



UBG – Glass door bracket

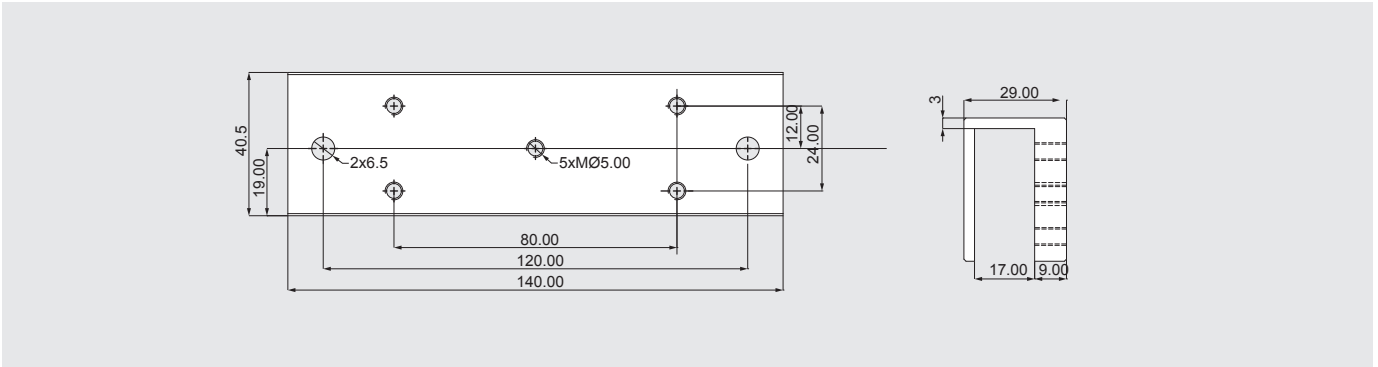
UBG-10 1800

(Order No.: 19860092)



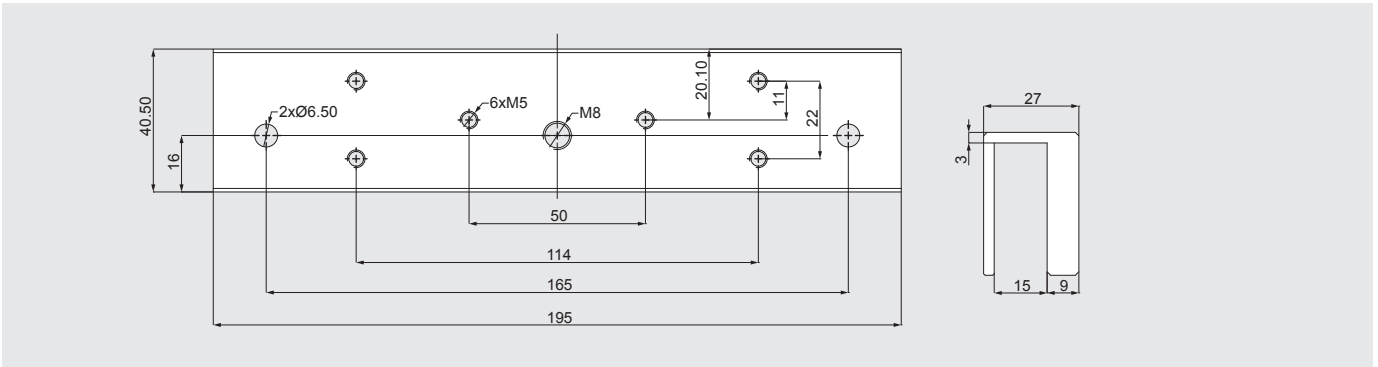
UBG-12 1800

(Order No.: 19860093)



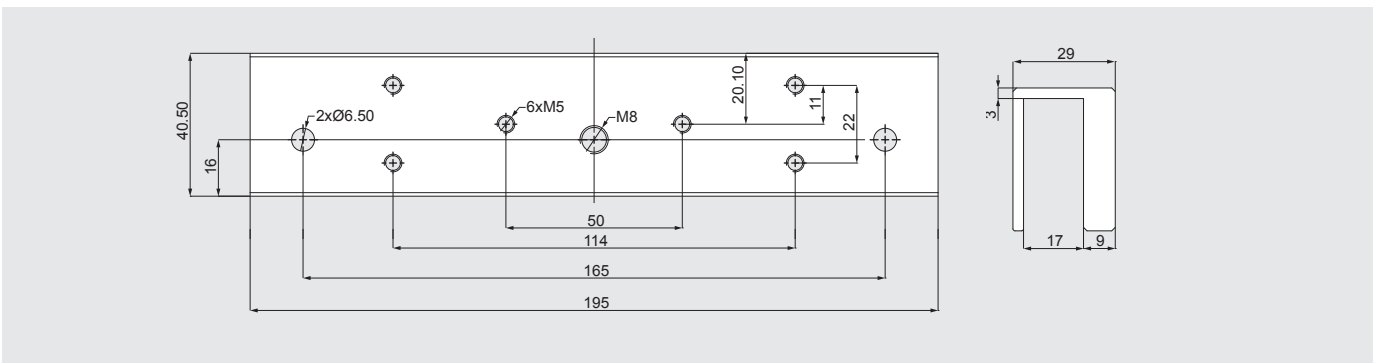
UBG-10 3000

(Order No.: 19860194)



UBG-12 3000

(Order No.: 19860195)



Weather-resistant Locks

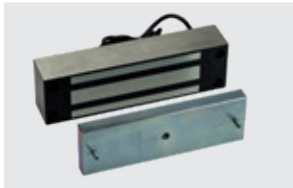
- All-in-one lock with large holding force
- Robust and anti-corrosion with completely sealed stainless steel housing
- For external applications and hostile environment (IP 66)
- Easy installation

Technical data

Holding force	7500 N
Installation	Surface-mounted (front/ side)
Magnet housing dimensions	225L x 63W x 44H mm
Armature plate dimensions	190L x 61W x 16H mm
Operation principle	Fail-safe (power to lock)
Power supply	12/ 24 V DC
Current	480 mA/ 240 mA
Lock status sensor	yes
LED indication LSS	no
Operation temperature	-40 to 60°C
IP class	66
Certification	RoHS, REACH, CE
Warranty	10 years
Applicaton	Exterior doors or gates, doors in hostile environment

Specification text

Order No.



EM 7500-F AH

Weather-resistant electromagnetic lock with up to 7500 N holding force, with lock status sensor, stainless steel housing, front-mounted for swing doors

19860300

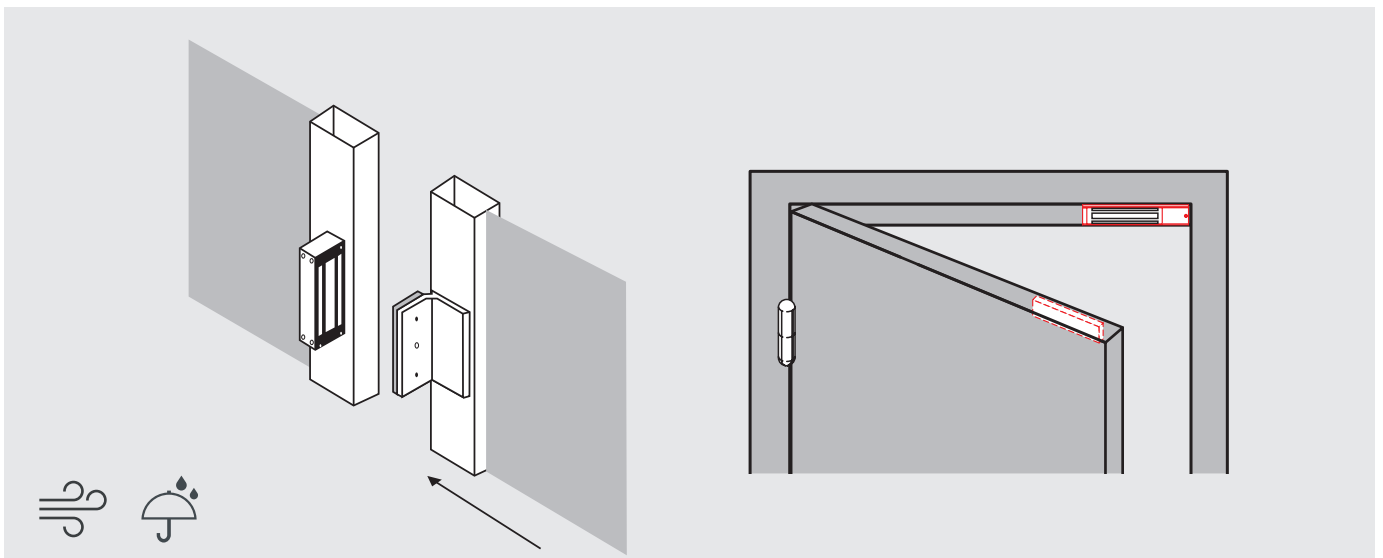


EM 7500-S AH

Weather-resistant electromagnetic lock with up to 7500 N holding force, with lock status sensor, stainless steel housing, side-mounted for sliding doors

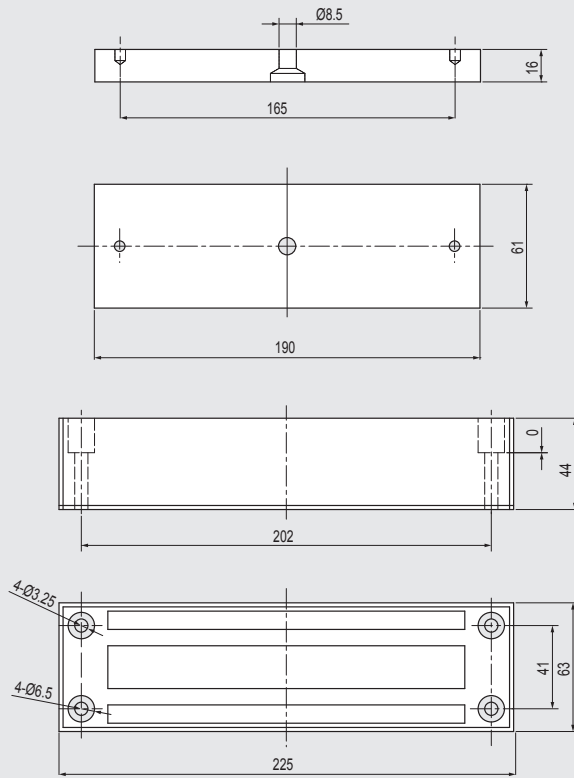
19860301

Typical Application



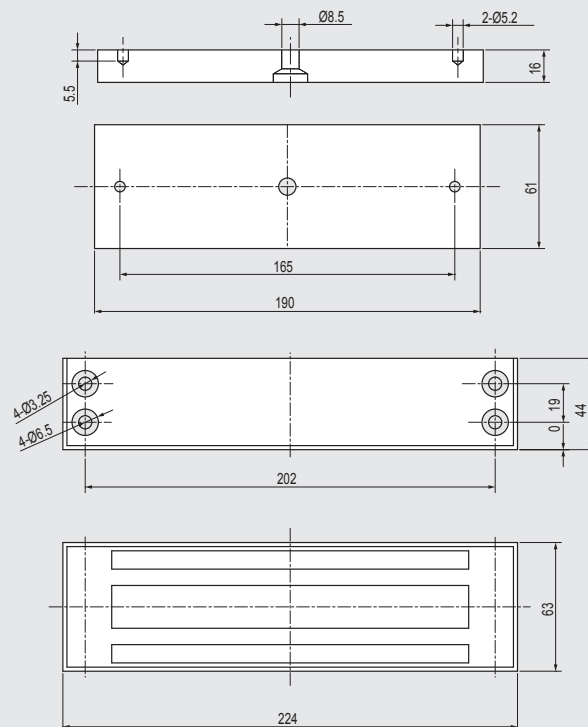
EM 7500-F AH

(Order No.: 19860300)



EM 7500-S AH


(Order No.: 19860301)



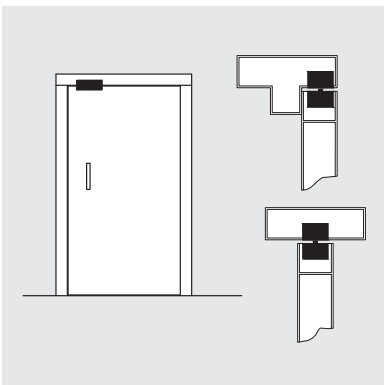
Shear Locks

- Concealed solution thanks to minimal dimension
- Large shear holding force
- The unique solution for double action swing doors

Technical data	EM 7500-D AM
Holding force	7500 N
Installation	Mortise-mounted
Magnet housing dimensions	129L x 31W x 19H mm
Armature plate dimensions	129L x 26W x 21H mm
Operation principle	Fail-safe (power to lock)
Power supply	12/ 24 V DC
Current	1500/750 mA
Lock status sensor	yes
LED indication LSS	no
Operation temperature	-40 to 60°C
IP class	IP 43 installed
Certification	RoHS, REACH, CE
Warranty	2 years
Applicaton	Interior swing doors, double action doors

	Specification text	Order No.
	<p>EM 7500-D AM Shear lock with up to 7500 N holding force, mortise-mounted, with lock status sensor, suitable for double-action doors</p>	19860320

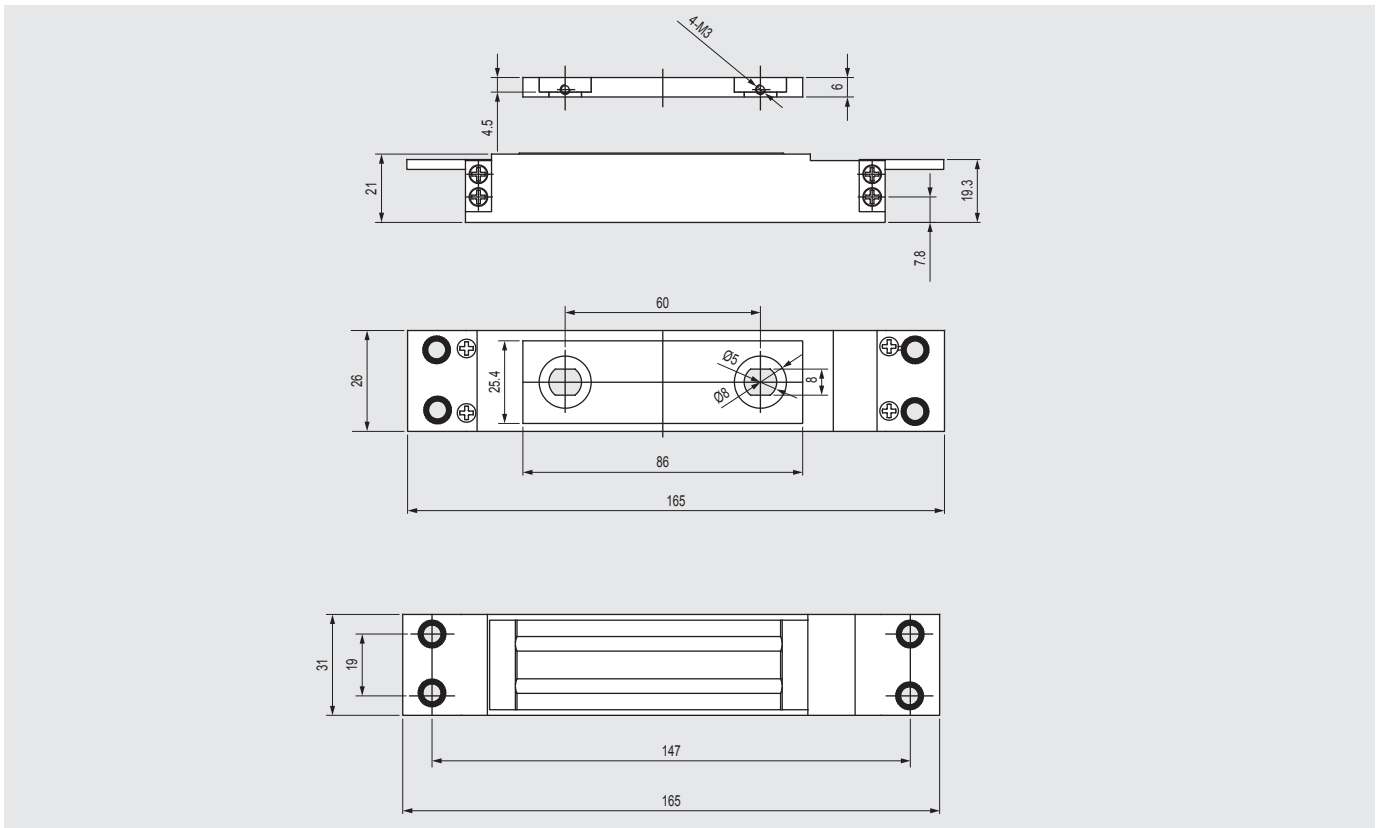
Typical Application



Note: for double-action door application we recommend to use shear lock in combination with heavy duty floor spring.

EM 7500-D AM

(Order No.: 19860320)





Hybrid Locks

The EM 6900 series offers advanced mini electromagnets with 15000 N holding force for high security doors. The locks feature an integrated lock status sensor, a door status sensor, an Early Warning detector and a built-in buzzer.

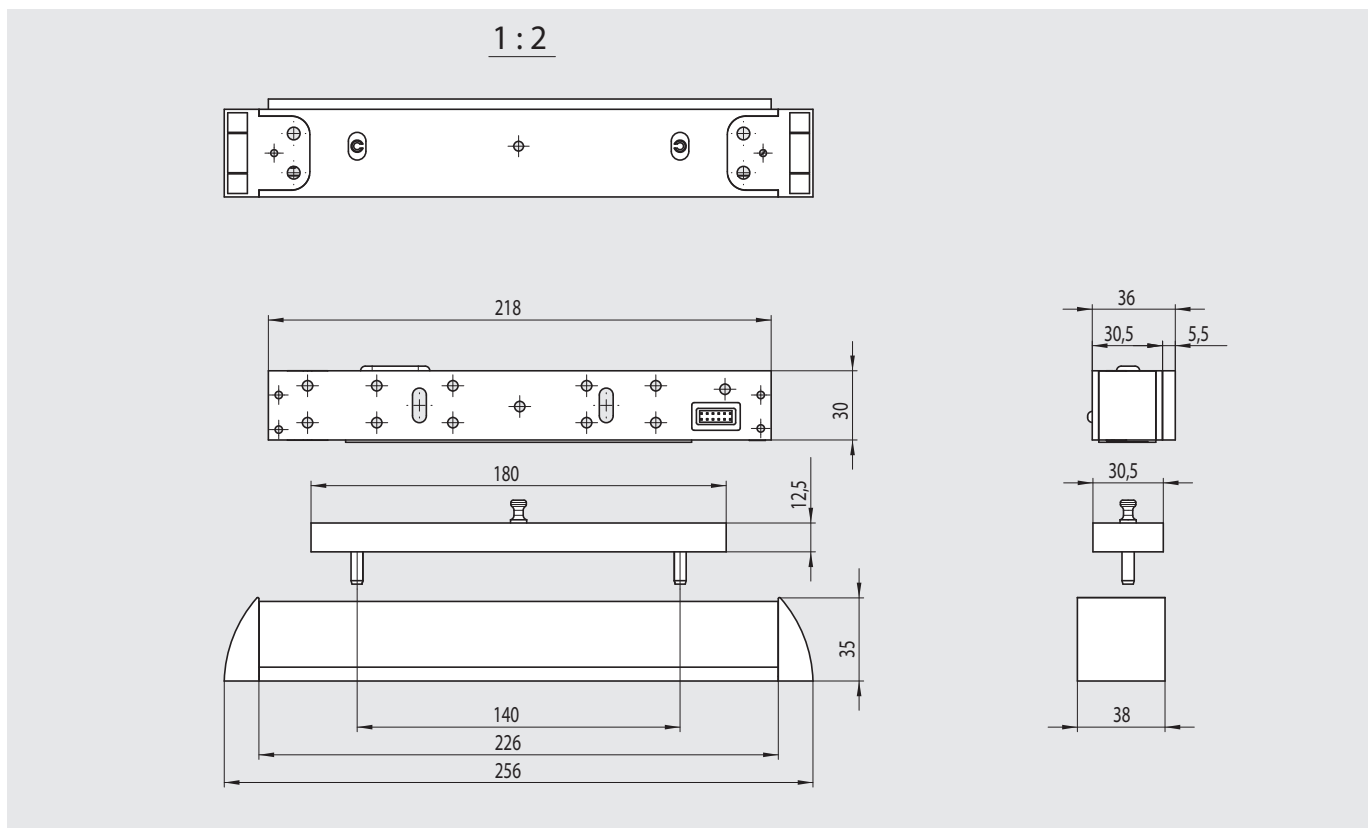
- Maximum holding force level: > 15000 N
- Minimal size (surface version -30.5 / mortise version -35.5 mm width) for universal installation
- Highest security: The Early Warning detector will generate a remote alarm and activate the built-in buzzer before unauthorized access occurs.
- Innovative hybrid solution combining mechanical and electromagnetic holding force
- With tamper-proof armature plate bracket
- Energy-saving: Less power consumption than conventional electromagnetic locks

Technical data	EM 6900 GL-AH B	EM 6900 AM B
Holding force	> 15000 N	> 15000 N
Installation	Surface-mounted	Mortise-mounted
Magnet housing dimensions	218L x 30.5W x 30H mm	195L x 35.5W x 25.7 H mm
Armature plate dimensions	256L x 30W x 38H mm (incl. bracket)	195L x 35.5W x 24H mm
Operation principle	Fail-safe (power to lock)	Fail-safe (power to lock)
Power supply	12 / 24 V DC	12 / 24 V DC
Current	400 / 200 mA	400 / 200 mA
Lock status sensor	yes	yes
Mega LED indication LSS	yes	no
Early warning alarm	Reed + built-in buzzer	Reed + built-in buzzer
Operation temperature	-40 to 60°C	-40 to 60°C
IP class	IP 43 installed	IP 43 installed
Certification	RoHS, REACH, CE	RoHS, REACH, CE
Warranty	2 years	2 years
Applicaton	Interior (doors fitted with security access control systems)	Interior (doors fitted with security access control systems)

	Specification text	Order No.
	<p>EM 6900 GL-AH B Single surface-mounted hybrid electromagnetic lock with more than 15000 N holding force, with lock status sensor and MegaLed, door status sensor, Early Warning detector and built-in buzzer, anodized aluminium finish</p>	19860241
	<p>EM 6900 AM B Single mortise-mounted hybrid electromagnetic lock with more than 15000 N holding force, with lock status sensor, doors status sensor, Early Warning detector and built-in buzzer</p>	19860242

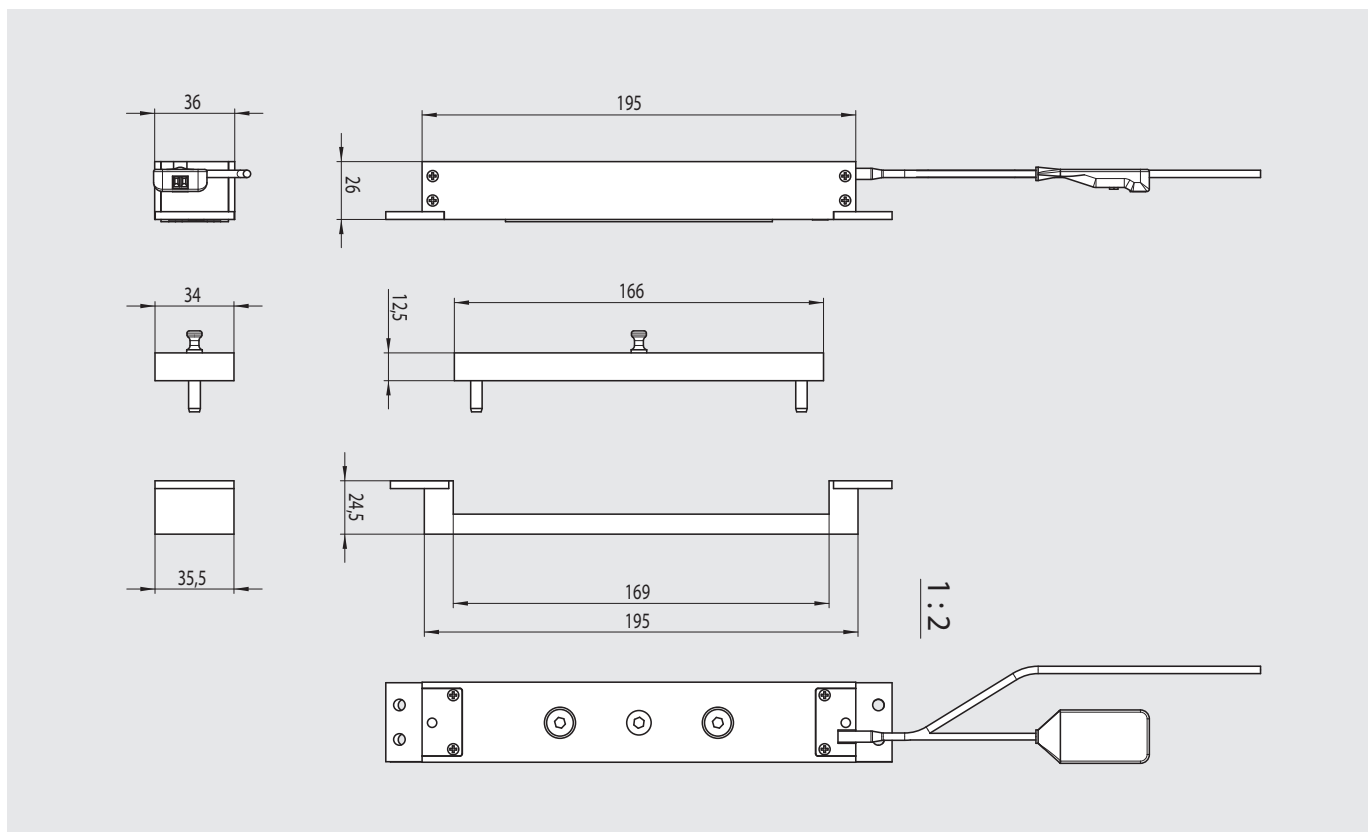
EM 6900 GL-AH B

(Order No.: 19860241)



EM 6900 AM B

(Order No.: 19860242)





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



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