



Electromagnetic Locking

ASSA ABLOY

The global leader in
door opening solutions

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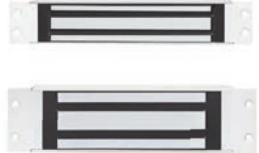
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A4 and A8 Single Series Non Monitored



Single Series Non Monitored

The Single Series Electromagnetic Locks operate with holding forces from 250kg up to 580kg. Covering a range of applications the A4 and A8 Electromagnets are ideal for applications from cupboard doors through to high use commercial swing doors.

With fixing options including wood, aluminium and steel constructions as well as glass door applications, the range caters to most electromagnetic needs.

Key Features

- Fail Safe: unlocks when power is removed
- Easy installation: suitable for both new and retrofit usage
- High holding force: refer to the technical data overleaf
- Self alignment: armature plate pivots to accommodate door drop
- Silent operation: no humming or buzzing
- Dual voltage: site selectable 12 or 24 Vdc
- Instantaneous release: smart electronics on the A Series Electromagnets eliminate residual magnetism
- 5 Year ASSA ABLOY Warranty

Applications

- Aluminium doors
- Glass doors
- IT storage rooms
- Access control
- Surface mount for inward and outward swinging doors

Product Details

	A4 Magnet	A8 Magnet
Holding Force	250 280 Kg	550kg 580kg
Dimensions	(L)240 x (H)48.5 x (D)25mm	(L)265 x (H)71.8 x (D) 39 mm
Voltage	12Vdc/24Vdc +/- 10%	12Vdc/24Vdc +/- 10%
Current	500mA @ (12Vdc) 250mA @ (24Vdc)	420mA @ (12Vdc) 210mA @ (24Vdc)
Monitoring	Hall Effect (Optional)	Hall Effect (Optional)
Operating Temperature	10 to 55 Degrees	10 to 55 Degrees
Operating Humidity	0 90%	0 90%

Standards and Compliance



CE Approved

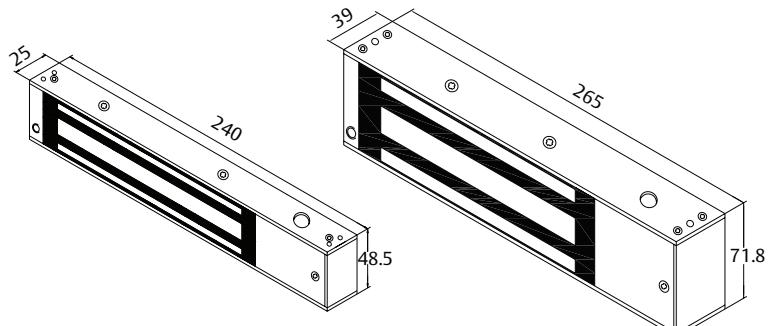


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A4 and A8 Single Series Non Monitored



A4 Electromagnetic Lock Non Monitored

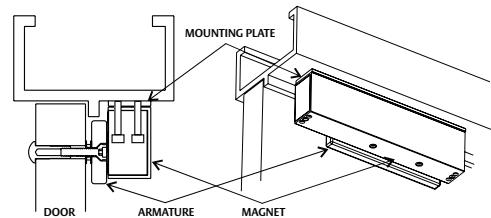


A4 Electromagnetic Lock

A8 Electromagnetic Lock



A8 Electromagnetic Lock Non Monitored



Typical Install for A4 & A8 out swinging doors.

Ordering Information

Part Number	Product Description
AAEMAGA4SSHSAL	EMA4 E/Magnet 12/24Vdc Single Non Monitored
AAEMAGA8SSHSAL	EMA8 E/Magnet 12/24Vdc Single Non Monitored

Specification Statement

The Single Series Electromagnetic Lock should be constructed in an aluminium case with heavy duty electromagnet. The range only operates in Fail Safe mode and relies on a secondary lock or battery backup system. In some cases the Magnet Armature Plate pivots to accommodate door drop. The lock needs to be equipped with smart electronics that have zero residual magnetism (instantaneous release). This is crucial for correct operation.

A4 and A8 Single Series Monitored



Single Series Monitored

Electromagnetic Locks, operate with holding forces from 250kg up to 580kg. These can also be used for doors that need to be monitored in terms of door position and if the door is locked.

Covering a range of applications the A4 and A8 Electromagnets are ideal for applications from cupboard doors through to high use commercial swing doors.

With fixing options including wood, aluminium and steel constructions, as well as glass door applications, the range caters to most electromagnetic needs.

Key Features

- Fail Safe: unlocks when power is removed
- Easy installation: suitable for both new and retrofit usage
- High holding force: refer to the technical data overleaf
- Self alignment: armature plate pivots to accommodate door drop
- Silent operation: no humming or buzzing
- Dual voltage: site selectable 12 or 24 Vdc

- Monitoring: reed switch monitoring on all models, hall effect monitoring on A4 and A8 models
- Instantaneous release: smart electronics on the A Series Electromagnets eliminate residual magnetism
- 5 Year ASSA ABLOY Warranty

Monitoring

Hall / Bond Monitoring

This indicates that the lock is powered and that the armature plate is in position and magnetically bonded (it monitors if the magnet is locked)

Reed Switch Monitoring

An integrated reed switch monitors the door position separately (it monitors the position of the door)

Applications

- Aluminium doors
- Glass doors
- IT storage rooms
- Access control
- Surface mount for inswing and outswing doors

Product Details

	A4 Magnet	A8 Magnet
Holding Force	250 280 Kg	550kg 580kg
Dimensions	(L)240 x (H)48.5 x (D)25mm	(L)265 x (H)71.8 x (D) 39 mm
Voltage	12Vdc/24Vdc +/- 10%	12Vdc/24Vdc +/- 10%
Current	500mA @ (12Vdc) 250mA @ (24Vdc)	420mA @ (12Vdc) 210mA @ (24Vdc)
Monitoring	Hall Effect & Reed Switch	Hall Effect & Reed Switch
Operating Temperature	10 to 55 Degrees	10 to 55 Degrees
Operating Humidity	0 90%	0 90%

Standards and Compliance

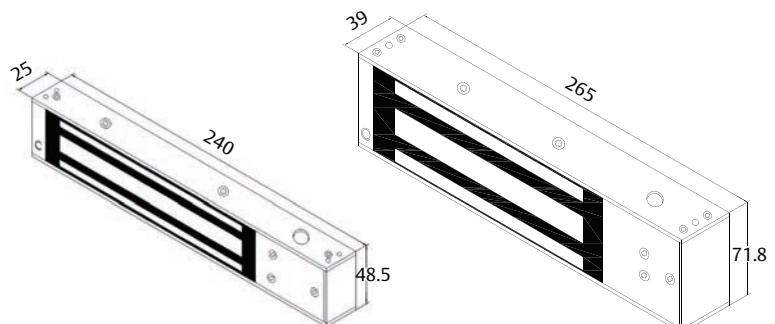
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A4 and A8 Single Series Monitored



A4 Electromagnetic Lock - Monitored

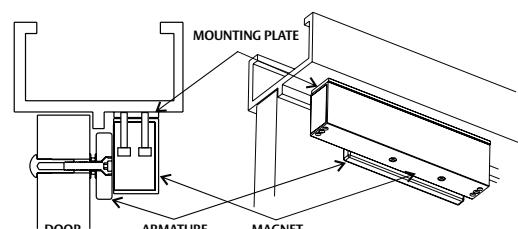


A4 Electromagnetic Lock

A8 Electromagnetic Lock



A8 Electromagnetic Lock - Monitored



Typical Install for A4 & A8 out swinging doors.

Ordering Information

Part Number	Product Description
AAEMAGA4SSHRAL	EMA4 E/Magnet 12/24Vdc Single Monitored
AAEMAGA8SSHRAL	EMA8 E/Magnet 12/24Vdc Single Monitored

Specification Statement

The Single Series Electromagnetic Lock should be constructed in an aluminium case with heavy duty electromagnet. The range only operates in Fail Safe mode and relies on a secondary lock or battery backup system. In some cases the magnet armature plate pivots to accommodate door drop. The lock needs to be equipped with smart electronics that have zero residual magnetism (instantaneous release). This is crucial for correct operation.

A4 and A8 Double Series Non Monitored



Double Series Monitored

The Electromagnetic Locks operate with holding forces from 500kg up to 1160kg. Covering a range of applications these magnets are ideal for applications from access ways through to high use commercial swing doors. With fixing options including wood, aluminium and steel constructions as well as glass door applications, the range caters to most electromagnetic needs.

Key Features

- Fail Safe: unlocks when power is removed
- Easy installation: suitable for both new and retrofit usage
- High holding force: refer to the technical data overleaf
- Self alignment: armature plate pivots to accommodate door drop
- Silent operation: no humming or buzzing
- Dual voltage: site selectable 12 or 24 Vdc
- Instantaneous release: smart electronics on the electromagnets eliminate residual magnetism
- 5 Year ASSA ABLOY Warranty

Applications

- Aluminium doors
- Double swing doors
- Access control
- Surface mount for inswing and outswing doors

Product Details

	A4 Magnet	A8 Magnet
Holding Force	500 560 Kg	1100kg 1160kg
Dimensions	(L)480 x (H)48.5 x (D)25mm	(L)530 x (H)71.8 x (D) 39 mm
Voltage	12Vdc/24Vdc +/- 10%	12Vdc/24Vdc +/- 10%
Current	1000mA @ (12Vdc) 500mA @ (24Vdc)	840mA @ (12Vdc) 420mA @ (24Vdc)
Monitoring	Hall Effect (Optional)	Hall Effect (Optional)
Operating Temperature	10 to 55 Degrees	10 to 55 Degrees
Operating Humidity	0 90%	0 90%

Standards and Compliance

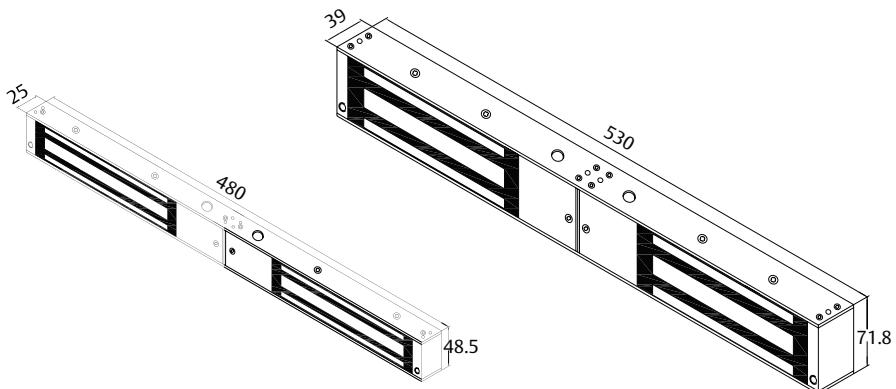
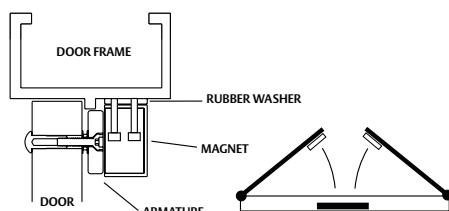


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A4 and A8 Double Series Non Monitored



Out swinging door using the standard mounting plate.

A4 Electromagnetic Lock

A8 Electromagnetic Lock

Ordering Information

Part Number	Product Description
AAEMAGA4DSHSAL	EMA4 E/Magnet 12/24Vdc Double Non Monitored
AAEMAGA8DSHSAL	EMA8 E/Magnet 12/24Vdc Double Non Monitored

Specification Statement

The Double Series Electromagnetic Lock should be constructed in an aluminium case with heavy duty electromagnet. The range only operates in Fail Safe mode and relies on a secondary lock or battery backup system. The lock needs to be equipped with smart electronics that have zero residual magnetism (instantaneous release). This is crucial for correct operation.

A4 and A8 Double Series Monitored



Double Series Monitored

Electromagnetic Locks, operate with holding forces from 500kg up to 1160kg.

These can also be used for doors that need to be monitored in terms of door position and if the door is locked.

Covering a range of applications the A4 and A8 Electromagnets are ideal for applications from cupboard doors through to high use commercial swing doors.

With fixing options including wood, aluminium and steel constructions, as well as glass door applications, the range caters to most electromagnetic needs.

Key Features

- Fail Safe: unlocks when power is removed
- Easy installation: suitable for both new and retrofit usage
- High holding force: refer to the technical data overleaf
- Self alignment: armature plate pivots to accommodate door drop
- Silent operation: no humming or buzzing

- Dual voltage: site selectable 12 or 24 Vdc
- Monitoring: hall effect and reed switch monitoring on all models
- Instantaneous release: smart electronics on the A Series Electromagnets eliminate residual magnetism
- 5 Year ASSA ABLOY Warranty

Applications

- Aluminium doors
- Double swing doors
- Access control
- Surface mount for inswing and outswing doors

Monitoring

Hall / Bond Monitoring

This indicates that the lock is powered and that the Armature Plate is in position and magnetically bonded (it monitors if the magnet is locked)

Reed Switch Monitoring

An integrated reed switch monitors the door position separately (it monitors the position of the door)

Product Details

	A4 Magnet	A8 Magnet
Holding Force	500 560 Kg	1100kg 1160kg
Dimensions	(L)480 x (H)48.5 x (D)25mm	(L)530 x (H)71.8 x (D) 39 mm
Voltage	12Vdc/24Vdc +/- 10%	12Vdc/24Vdc +/- 10%
Current	1000mA @ (12Vdc) 500mA @ (24Vdc)	840mA @ (12Vdc) 420mA @ (24Vdc)
Monitoring	Hall Effect & Reed Switch	Hall Effect & Reed Switch
Operating Temperature	10 to 55 Degrees	10 to 55 Degrees
Operating Humidity	0 90%	0 90%

Standards and Compliance

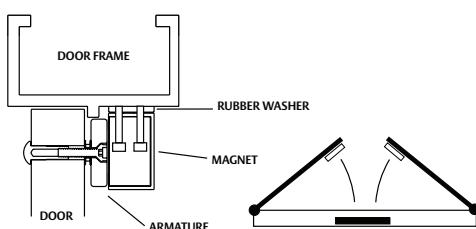


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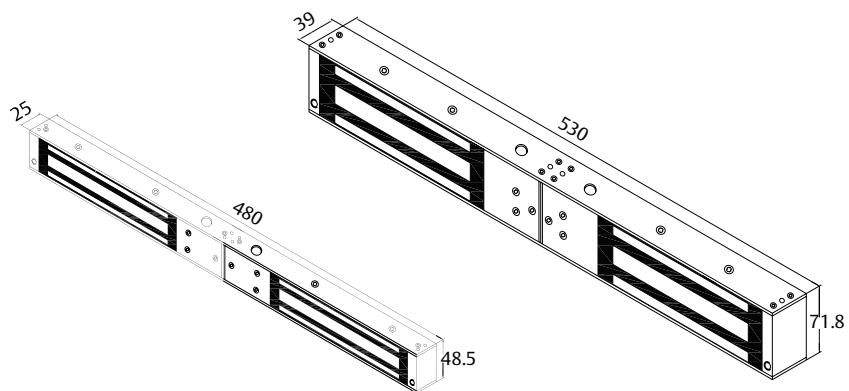


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A4 and A8 Double Series Monitored



Out swinging door using the standard mounting plate.



A4 Electromagnetic Lock

A8 Electromagnetic Lock

Ordering Information

Part Number	Product Description
AAEMAGA4DSHRL	EMA4 E/Magnet 12/24Vdc Double Monitored
AAEMAGA8DSHRL	EMA8 E/Mag 12/24Vdc Double Monitored

Specification Statement

The Double Series Electromagnetic Lock should be constructed in an aluminium base with heavy duty electromagnet. The range only operates in Fail Safe mode and relies on a secondary lock or battery backup system. The lock needs to be equipped with smart electronics that have zero residual magnetism (instantaneous release). This is crucial for correct operation.

A4 and A8 Recessed Electromagnetic Lock



Recessed Electromagnetic Locks

The Recessed Electromagnetic Locks operate with holding forces up to 280kg and 580kg. Covering a range of applications these magnets are ideal for situations where the magnet needs to be recessed such as swing and sliding doors. With fixing options including wood, aluminium and steel constructions, the range caters to most needs. The electromagnets are available in both monitored and non monitored models, using hall effect monitoring on some. These Electromagnetic Locks are CSIRO approved for use on fire doors and are characterised by their high quality and proven reliability in both fire and security applications.

Key Features

- Fail Safe: unlocks when power is removed
- Easy installation: suitable for both new and retrofit usage
- High holding force: refer to the technical data overleaf
- Self alignment: armature plate pivots to accommodate door drop
- Silent operation: no humming or buzzing

- Dual voltage: site selectable 12 or 24 Vdc
- Monitored versions: hall effect status monitoring available on some models
- Instantaneous release: smart electronics on the Recessed Electromagnetic Lock eliminate residual magnetism
- 5 Year ASSA ABLOY Warranty

Applications

- Various sliding door applications

Product Details

	A4 Magnet	A8 Magnet
Holding Force	250kg 280kg	550kg 580kg
Dimensions	(L)232 x (H)42 x (D)24.5mm	(L)254 x (H)65.8 x (D) 39 mm
Voltage	12Vdc/24Vdc +/- 10%	12Vdc/24Vdc +/- 10%
Current	500mA @ (12Vdc) 250mA @ (24Vdc)	420mA @ (12Vdc) 210mA @ (24Vdc)
Monitoring	Hall Effect	Hall Effect
Operating Temperature	10 to 55 Degrees	10 to 55 Degrees
Operating Humidity	0 90%	0 90%

Standards and Compliance

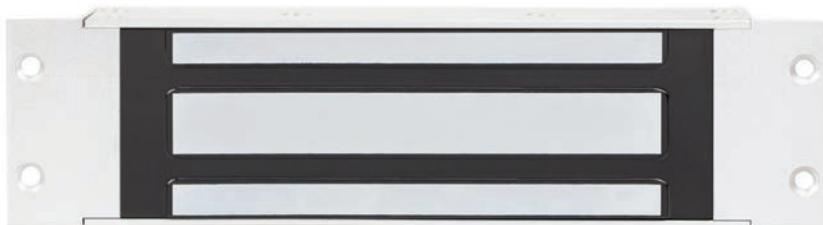
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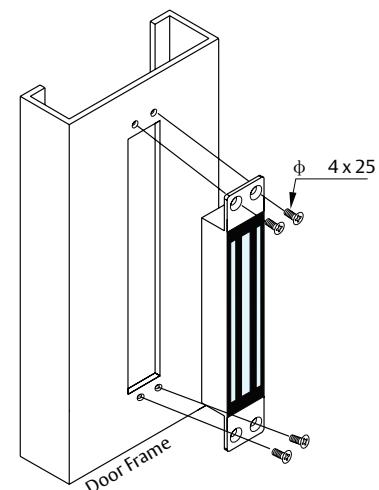
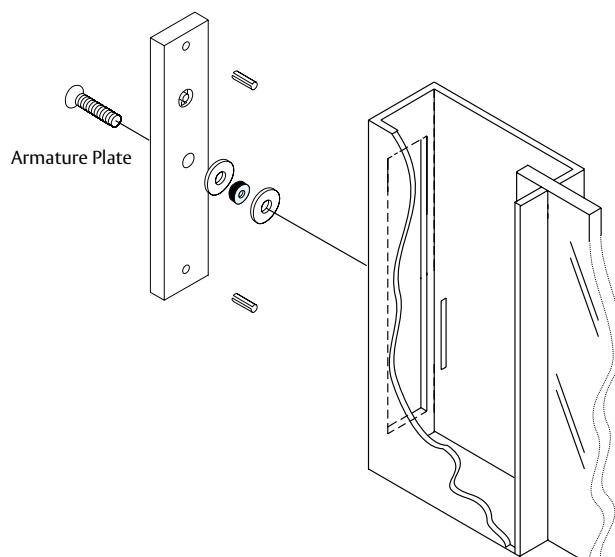
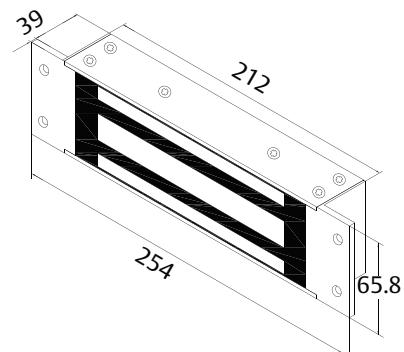
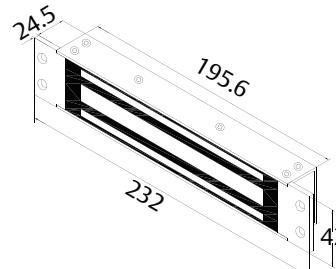
A4 and A8 Recessed Electromagnetic Lock



A4 Recessed Electromagnetic Lock



A8 Recessed Electromagnetic Lock



Ordering Information

Specification Statement

The A4 and A8 Recessed Electromagnetic Lock should be constructed in an aluminium case with heavy duty electromagnet. The range only operates in Fail Safe mode and relies on a secondary lock or battery backup system. The lock needs to be equipped with smart electronics that have zero residual magnetism (instantaneous release). This is crucial for correct operation.

Part Number

Product Description

AAEMAGA4RHSAL	EMA4 E/Magnet Recessed 12/24Vdc Single Monitored
AAEMAGA8RHSAL	EMA8 E/Magnet Recessed 12/24Vdc Single Monitored

A8 Weather Resistant Electromagnetic Lock



Weather Resistant Electromagnetic Lock

The Weather Resistant Electromagnetic Lock operates with holding forces from 250kg up to 580kg. Covering a range of applications these are ideal where magnets are exposed to the weather. With fixing options including wood, aluminium and steel constructions as well as glass door applications, the range caters to most external needs. The electromagnets are available in monitored models using hall effect monitoring. These Electromagnetic Locks are CSIRO approved for use on fire doors and are characterised by their high quality and proven reliability in both fire and security applications. The smart electronics have zero residual magnetism meaning instantaneous release when required. An additional advantage is the ability to select either 12V or 24V DC application on site.

Key Features

- Fail Safe: unlocks when power is removed
- Easy installation: suitable for both new and retrofit usage
- Self alignment: armature plate pivots to accommodate door drop
- Silent operation: no humming or buzzing
- Dual voltage: site selectable 12 or 24 Vdc
- Monitored versions: hall effect status monitoring available
- 5 Year ASSA ABLOY Warranty

Monitoring

Hall / Bond Monitoring

Hall effect position sensors are non contact devices that convert energy from a magnetic field into an electrical signal. This indicates that the lock is powered and that the Armature Plate is in position and magnetically bonded (it monitors if the magnet is locked).

Applications

- Outdoor / exposed doors
- Doors located in coastal areas

Product Details

A8 Weather Resistant Electromagnet

Holding Force	550kg 580kg
Dimensions	(L)220 x (H)68.5 x (D)36 mm
Voltage	12Vdc/ 24Vdc ±10%
Current	420mA @ (12Vdc) 210mA @ (24Vdc)
Monitoring	Hall Effect
Operating Temperature	25 to 55 Degrees
Operating Humidity	0 90%

Standards and Compliance



CE Approved

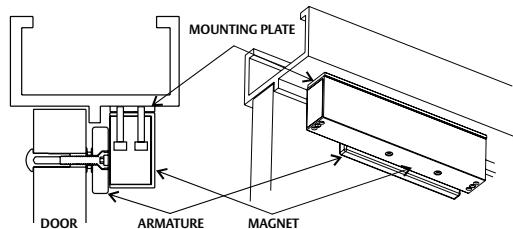
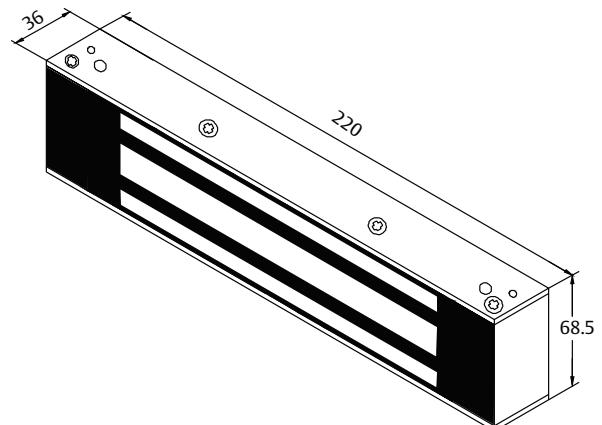


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A8 Weather Resistant Electromagnetic Lock



A8 Weather Resistant Electromagnetic Lock Monitored



Typical Install for A8 out swinging doors.

Ordering Information

Part Number	Product Description
AAEMAGA8SSHSALW	EMA4 E/Magnet Weather Res 12/24Vdc Single Monitored

Specification Statement

The Weather Resistant Electromagnetic Lock should be constructed in an aluminium case with heavy duty electromagnet. The range only operates in Fail Safe mode and relies on a secondary lock or battery backup system. In some cases the Magnet Armature Plate pivots to accommodate door drop.

Electromagnetic Lock Accessories



L and Z Brackets



U Bracket



U Bracket Plate

Electromagnetic Lock Accessories

The Electromagnetic Lock range offers a number of accessory options. These accessories allow the Electromagnetic Locks to be used in a number of different applications and can be adjusted and suited to each situation. This allows the installer to configure the door as required allowing user specific features such as open in / open out selection or glass door applications. Electromagnetic Lock Accessories meet or exceed local and international standards, providing safe and secure locking.

Key Features

- Adjustable fixing positions
- Cast aluminium construction
- Meet and exceed international and local standards

Applications

- Open in/open out doors
- Glass door security
- Double doors security
- Sliding door security

Ordering Information

Part Number	Product Description
A4 Brackets	
AAEBKA4SLAL	L BRACKET FOR A4 600 LBS MAGNET
AAEBKA4SZLAL	Z & L BRACKET FOR A4 600 LBS MAGNET
AAEBKA4SULAL	U BRACKET FOR A4 600 LBS MAGNET
AAEBKA4SIAL	I BRACKET FOR A4 600 LBS MAGNET
A8 Brackets	
AAEBKA8SZLAL	L BRACKET FOR A8 1200 LBS MAGNET
AAEBKA8SULAL	Z & L BRACKET FOR A8 1200 LBS MAGNET
AAEBKA8SIAL	U BRACKET FOR A8 1200 LBS MAGNET
AAEBKA8SIAL	I BRACKET FOR A8 1200 LBS MAGNET

ASSA ABLOY is the global leader in door opening solutions, dedicated to satisfying end-user needs for security, safety and convenience.

ASSA ABLOY is represented in all major regions, in both mature and emerging markets, with leading positions in Australia, Europe and North America.

As the world's leading lock group, ASSA ABLOY offers a more complete product range of door opening solutions than any other company on the market.

