



Electromagnetic Locking

ASSA ABLOY

The global leader in
door opening solutions

ASSA ABLOY Electromagnetic Locking

Features & Benefits

ASSA ABLOY

A4 Single & Double Electromagnetic Lock

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
- 3 Year ASSA ABLOY Warranty

Technical details:

- Holding forces from 250kg up to 280kg for single leaf, 500kg up to 560kg for double leaf
- Dual voltage: site selectable 12 Vdc or 24 Vdc
- High holding force: refer to the technical data overleaf
- Self-alignment: armature plate pivots to accommodate door drop

Benefits:

- Great user comfort
- Advanced safety and security
- Detailed insight and risk management
- Emergency entry
- Ease of use



A4 Single Leaf Electromagnetic Lock ASSA ABLOY

A4 Single Electromagnetic Lock

Electromagnetic Locking:

The Single Series Electromagnetic Locks operate with holding forces from 250kg up to 280kg. Covering a range of applications the A4 Electromagnets are ideal for applications from cupboard doors through to high use commercial swinging doors.

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



A4 Single Electromagnetic Lock

Technical details

Technical details:

	Non Monitored	Monitored
Holding Force	250-280 Kg	250-280 Kg
Dimensions	(L)250 x (H)47 x (D) 26mm	(L)250 x (H)47 x (D) 26 mm
Voltage	12Vdc/24Vdc +/- 10%	12Vdc/24Vdc +/- 10%
Current	450mA @ (12Vdc) 225mA @ (24Vdc)	450mA @ (12Vdc) 225mA @ (24Vdc)
Monitoring	Hall-Effect (Optional)	Hall-Effect & Reed Switch
Operating Temperature	-10 to 55 Degrees	-10 to 55 Degrees
Operating Humidity	0-90%	0-90%

Applications

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

A4 Single Leaf Electromagnetic Lock

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A4 Single Electromagnetic Lock

Electromagnetic Locking:

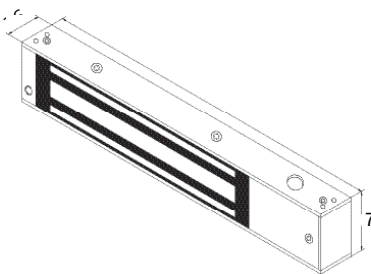
The Single Series Electromagnetic Lock should be constructed in an aluminium case with heavy duty electromagnet. The range only operates in Fail Safe mode and relies on a secondary lock or battery backup system. In some cases the Magnet Armature Plate pivots to accommodate door drop. The lock needs to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



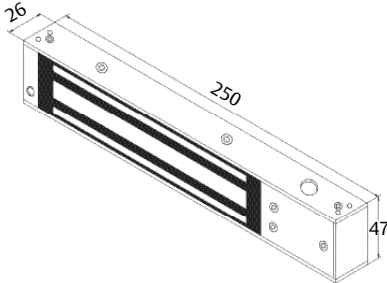
A4 Single Electromagnetic Lock - Non Monitored



A4 Single Electromagnetic Lock - Monitored

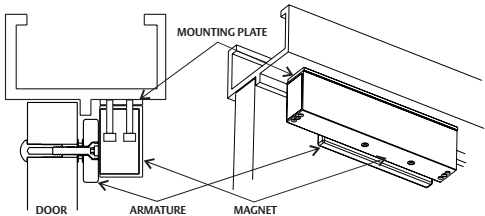


Non Monitored Lock



Monitored Lock

Typical Installation



Typical Install for A4 out swinging doors

Ordering Information

Part Number	Product Description
AAIEMAGA4SSH5AL	EMA4 E/Magnet 12/24Vdc Single Non Monitored
AAIEMAGA4SSHRAL	EMA4 E/Magnet 12/24Vdc Single Monitored

A4 Double Leaf Electromagnetic Lock ASSA ABLOY

A4 Double Electromagnetic Lock

Electromagnetic Locking:

The Electromagnetic Locks operate with holding forces from 500kg up to 560kg. 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.



A4 Double Electromagnetic Lock

Technical details

Technical details:

	Non Monitored	Monitored
Holding Force	500-560 Kg	550-560 Kg
Dimensions	(L)500 x (H)47 x (D) 26mm	(L)500 x (H)47 x (D) 26 mm
Voltage	12Vdc/24Vdc +/- 10%	12Vdc/24Vdc +/- 10%
Current	900mA @ (12Vdc) 450mA @ (24Vdc)	900mA @ (12Vdc) 450mA @ (24Vdc)
Monitoring	Hall-Effect (Optional)	Hall-Effect & Reed Switch
Operating Temperature	-10 to 55 Degrees	-10 to 55 Degrees
Operating Humidity	0-90%	0-90%

Applications

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

A4 Double Leaf Electromagnetic Lock

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A4 Double Electromagnetic Lock

Electromagnetic Locking:

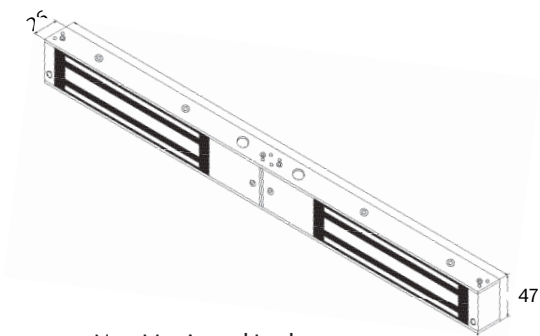
The Double Series Electromagnetic Lock should be constructed in an aluminium case with heavy duty electromagnet. The range only operates in Fail Safe mode and relies on a secondary lock or battery backup system. The lock needs to be equipped with “smart electronics” that have zero residual magnetism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



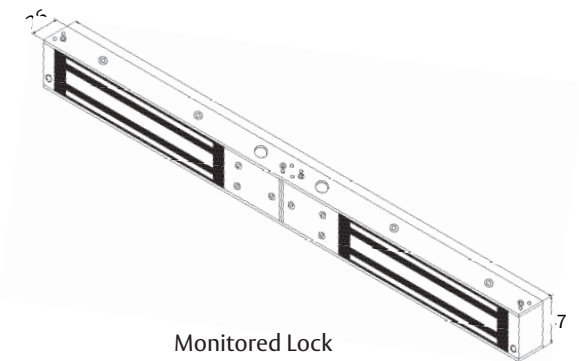
A4 Double Electromagnetic Lock - Non Monitored



A4 Double Electromagnetic Lock - Monitored

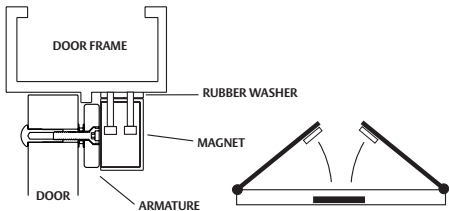


Non Monitored Lock



Monitored Lock

Typical Installation



Out swinging door using the standard mounting plate

Ordering Information

Part Number	Product Description
AAIEMAGA4DSHSAL	EMA4 E/Magnet 12/24Vdc Double Non Monitored
AAIEMAGA4DSHRAL	EMA4 E/Magnet 12/24Vdc Double Monitored

Accessories
Electromagnetic
Lock

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



L and Z Brackets

Monitoring Options:
Hall-Effect monitoring or Bond Sensor

This is a monitoring output from electromagnetic lock by detecting an armature plate and notifying access control and/ or alarm systems that a door is properly secured. The sensitive magnetic field monitors the surface of the armature plate, providing maximum assurance that the lock is engaged. Movement in the armature's position beyond the set tolerance alerts the access control system that the magnetic lock may not be generating its full holding force.



U Bracket



U Bracket Plate

Reed Switch or Door Position Sensor
The Door Position Switch provides a signal to an access control system indicating whether the door is open or closed. When used in conjunction with bond sensor, it provides layered status indication for precise information about the door state.

Applications

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

Ordering Information

Part Number	Product Description
AAIEBKA4SLAL	L bracket for A4 600 lbs magnet
AAIEBKA4SZLAL	Z & L bracket for A4 600 lbs magnet
AAIEBKA4SULAL	U bracket for A4 600 lbs magnet
AAIEBKA4SIAL	I bracket for A4 600 lbs magnet

Why are we the global leader in door opening solutions?

ASSA ABLOY Brands



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

www.assaabloy.com

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