CDVI

Security to Access

LOCKING

Maglocks, strikes, latches, solenoid bolts, and more

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Electronic Locking Key Terms

Holding Force	**Holding force** is a measure of the strength of a lock. Measured in kilograms or pounds, holding force indicates the amount of weight that would be required to break the lock.
Monitored Lock	Locks which are **monitored** are equipped with sensors which indicate the status of the lock. Monitoring allows for remote tracking and accurate reporting of lock status.
Surface/ Mortice	**Surface** locks are mounted on top of the existing physical infrastructure such as doors and door frames. **Mortice** locks are mounted embedded into the door or frame.
Single/ Double	**Single** maglocks consist of just one powered magnet. Meanwhile, **double** maglocks have two powered magnets in the same housing, doubling the holding force of the lock.
Fire Rated	**Fire rating** is a certification given to locks which can withstand fire for certain periods of time. In the UK, the most common fire rating regulations are EN1634-1 and EN14846.
Side Load	**Side load** or **pre-load** is the force exerted on the keeper of a lock by an external force pushing on the door. Many locks cannot operate under side load.
Continuous Current	**Continuous** or **constant current** is ideal for situations where power needs to be applied continuously for long periods of time, without burning out the product's coil.
Metal Oxide Varistor	Locks equipped with a **Metal Oxide Varistor** (MOV) are protected from back-EMF. They help to ensure power and locking are consistent and reliable.
Fail Safe/ Fail Secure	**Fail safe** locks are locked when power is applied, and unlocked when power drops. **Fail secure** locks are locked by default, and power is applied in order to unlock them.
Adjustable/ Fixed Jaw	Locks with an **adjustable jaw** can adapt slightly for doors which have a tendency to expand or contract. **Fixed jaw** means the lock cannot be adjusted in this way.
IP Rating	**IP rating** measures ingress protection. The first digit is from 0-6 and measures protection against solids. The second digit is from 0-8 and measures protection against water.
IK Rating	**IK rating** measures protection against mechanical impact. The scale goes from 1-10, with 10 the highest rating and protecting against 20 joules of mechanical impact.

Benefits of Electronic Locking

Electronic locks are ideal for use with access control systems. Unlike mechanical locks, they work automatically, locking and unlocking the door when required. There's a lot less space for human error with electronic locks. Mechanical keys can also be difficult to keep track of, as well as expensive to cut new ones. With electronic locks and access control systems, monitoring users and credentials is much easier.

Safer, easier, more secure

- It isn't possible to physically pick an electronic lock
- Less risk of human error as doors lock and unlock automatically
- Only people authorised by the access control system can enter
- Electronic locks provide a visual deterrent to criminals
- Monitored electronic locks mean better data and record-keeping

Seamless integration

Our electronic locks are designed to integrate smoothly and securely with access control systems. Whether it's a simple standalone solution or a large and complex building, CDVI locks are ready for the challenge. We have a long heritage in locking. Our products are trusted by installers all around the world!

- High quality components for reliable locking solutions
- Efficient power consumption for affordable running costs
- Expert technical support for one-to-one help when you need it

Electro-Magnetic Locks

Electro-magnetic locks consist of an electro-magnet and an armature plate. They are designed to be easy to install and offer both durability and longevity.

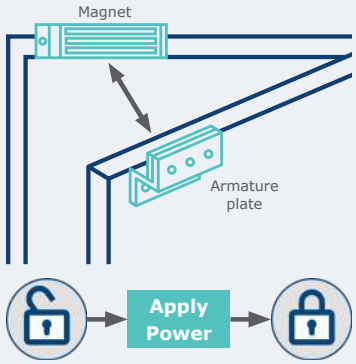
Electro-magnetic locks hold a door shut using the power of magnetic attraction. The magnet only becomes magnetic once electrical power is applied to it. When there is no power applied, it does not generate a magnetic field, leaving a door unlocked.

How it works

The armature plate is attached to the door, and the magnet is attached to the door frame.

When power is applied, a magnetic field is created and the magnet becomes strongly attracted to the armature plate. The strength of the attraction prevents the door from being opened. When power is removed, the magnetic field drops and the door can be opened.

All electro-magnetic locks are, by their nature, **fail safe** solutions.



Where to use maglocks

Electro-magnetic locks are versatile and robust locking solutions for a range of projects and applications.

- Perfect for emergency exits and fire doors
- Glass doors which are not compatible with other locks
- Interior doors controlling entry to restricted areas
- External doors in combination with mechanical locks

Electro-Magnetic Locks

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We offer a wide range of maglocks for many different applications. Indoor or outdoor projects, high holding force, low power consumption - we've got it all!

Fail Safe | **Brackets Required** | **Simple to Install**

	VS Series	VE Series	IS Series	IE Series	SD Series	C Series
	We are GOING GREEN Uses less power! 					
Placement	Internal	Internal	External	External	Internal	Internal
Mounting	Surface	Mortice	Surface	Mortice	Surface	Surface or Mortice
Holding Force	180, 300, 400, 500kg	300, 400kg	180, 400, 500kg	180, 300, 500kg	2x300, 2x500kg	300, 2x300, 500, 2x500kg
Fire Rating	Yes	-	-	-	-	Yes
Min Voltage	12Vdc	12Vdc	12Vdc	12Vdc	12Vdc	12Vdc
Max Voltage	24Vdc	24Vdc	24Vdc	24Vdc	24Vdc	24Vdc
Consumption	290-490mA	420-500mA	450-480mA	450-480mA	960-1000mA	480-1000mA
Formation	Single	Single	Single	Single	Double	Single or Double

Architectural Housings

These aluminium housings come with pre-cut spaces for maglocks. The housing is fitted into the door frame, leaving a neat and tidy finish. The range includes horizontal and vertical mounting and options for one or two maglocks holding 300kg or 500kg each.

Magnetic Pull Handles

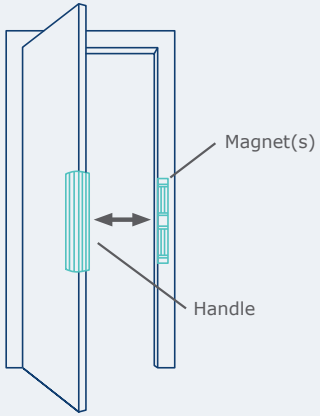
Our innovative pull handles consist of one or more electro-magnetic locks mounted into tidy aluminium housings. The magnet is fitted into a housing in the door frame. The armature plates are fitted into attractive and robust handles that fit to the edge of the door leaf. They're tough locking solutions that are ideal for high-traffic areas where a strong holding force is needed.

How it works

The magnets are mounted into the backplate, which is fitted to the door frame. The armature plates are part of the handle, which is fitted to the door leaf.

The handles are **fail safe**. When power is applied, a magnetic field is created and the magnets are strongly attracted to the armature plate, holding the door closed and locked.

When power is removed, the magnet releases and the door can be freely opened.



Where to use handles

Pull handles are robust, aesthetic, and secure solutions. They're great for high traffic environments.

- Great for universities and schools with high footfall
- Suitable for doors made of wood, metal, or glass
- Interior or exterior doors needing high holding force
- Custom RAL colours to match or stand out from the frame

Magnetic Pull Handles

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Our handles come in a range of different sizes, holding force strengths, and with some added features such as LED end caps for better visibility.

Fail Safe **High Traffic** **Simple to Install**

	Holding Force	Magnets	Length	LED	Mounting
P400RN	400kg	1x 400kg	400mm	-	Vertical
P800RN	800kg	2x 400kg	600mm	-	Vertical
BO800RN	800kg	2x 400kg	2500mm	-	Vertical
BO1200RN	1200kg	3x 400kg	2500mm	-	Vertical
P300RP	300kg	1x 300kg	400mm	-	Vertical
P600RP	600kg	2x 300kg	600mm	-	Vertical
BO600RP	600kg	2x 300kg	2500mm	-	Vertical
BO900RP	900kg	3x 300kg	2500mm	-	Vertical
BO600W	600kg	2x 300kg	2500mm	-	Vertical, recess
BO900W	900kg	3x 300kg	2500mm	-	Vertical, recess
P300EVO	300kg	1x 300kg	500mm	Yes	Vertical
P600EVO	600kg	2x 300kg	700mm	Yes	Vertical
BO600EVO	600kg	2x 300kg	2500mm	Yes	Vertical
BO900EVO	900kg	3x 300kg	2500mm	Yes	Vertical
BO600RH	600kg	2x 300kg	925mm	-	Horizontal

Planet-friendly products

- Manufactured in greener aluminium, saving 450 tons of CO_2 every year compared to our previous supplier
- New packaging which saves annual manufacturing consumption of:
  - 5000m^2 of cardboard
  - 20km of packing tape
  - 100m^3 of foam wedges

Electric Strikes

Electric Strikes

Electric strikes consist of a powered latch and a faceplate. They remain locked until the strike is activated and the latch is released, allowing the door to open.

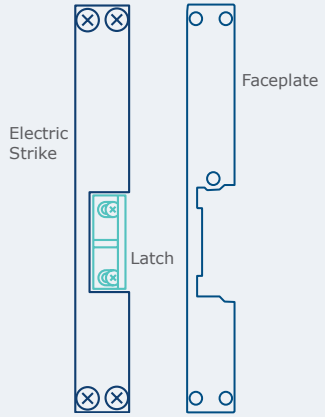
Some strikes are fail safe, and others are fail secure or even adjustable between the two modes. They are also useful when a manual handle is used to exit a door - this retracts the door snib, leaving the strike free to allow the door to open. In general, strikes are cost-effective, compact, and durable electronic locking solutions.

How it works

Electric strikes are fitted into the door frame to catch the latch or bolt from the door.

They are usually wired into a card reader or other access control validation method on one side of the door, and an exit button on the other. This ensures that the strike only releases the latch and unlocks the door when an authorised person requests access.

Strikes may be fail safe, fail secure, or even adjustable between the two modes.



Where to use strikes

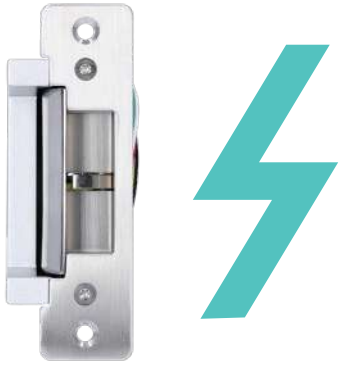
Strikes are popular electronic locks due to their simplicity, ease of installation, and cost-effectiveness.

- For an aesthetic finish where the lock is concealed
- Release locks solutions with automatic door openers
- For online systems needing remote access control
- Integration with audio/video intercom systems

Our strikes come in many different sizes and shapes for different doors. Voltage, jaw type, fire rating, and faceplates also vary throughout the range.

Fail Safe/ Fail Secure **Compact Locking** **Built-In Protection**

	Mode	Jaw Type	Voltage	Holding Force	Fire Rated
ARU-M	Adjustable	Fixed	12Vdc	750kg	-
GAE	Fail secure	Fixed	12Vac/dc	300kg	-
GAE-12CC	Fail secure	Fixed	12Vdc	300kg	-
GAE-24CC	Fail secure	Fixed	24Vdc	300kg	-
GAEI-12	Fail safe	Fixed	12Vdc	300kg	-
GAEI-24	Fail safe	Fixed	24Vdc	300kg	-
GAEIR-12	Fail safe	Adjustable	12Vdc	250kg	-
GAEIR-24	Fail safe	Adjustable	24Vdc	250kg	-
GAER	Fail secure	Adjustable	12Vac/dc	250kg	-
GAER-12CC	Fail secure	Adjustable	12Vdc	250kg	-
GAER-24CC	Fail secure	Adjustable	24Vdc	250kg	-
GPCF-12CC	Fail secure	Fixed	12Vdc	1000kg	Yes
GPCF-24CC	Fail secure	Fixed	24Vdc	1000kg	Yes
SIR12	Fail safe	Adjustable	12Vdc	280kg	-
SIR24	Fail safe	Adjustable	24Vdc	280kg	-
SPIR12	Fail safe	Adjustable	12Vdc	280kg	-
SR1024	Fail secure	Adjustable	10-24Vdc	280kg	-



All our strikes are fitted with a metal oxide varistor (MOV). This component helps maintain a safe and consistent level of voltage, even in a power surge. By absorbing energy and dissipating it as heat, the MOV prevents damage to vulnerable components inside the product.

Electric Latches & Bolts

The term ‘electric locks’ covers a range of products. It can include electric latches, solenoid bolts, motorised deadbolts, and more. All of them utilise a small solenoid or a motor which is activated by an electrical impulse when the lock is triggered to open.

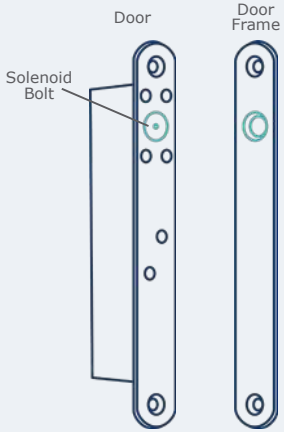
Electric locks are sometimes the best-suited solution, particularly when a door is very narrow in its depth. Where a strike or an electro-magnetic lock might not be appropriate, an electric lock could fill the gap.

How it works

Electric locks are generally used to replace traditional key-activated locks. A small solenoid inside the lock controls a latch or bolt that sits across the gap between the floor and the door frame. This holds the door locked.

When activated, the solenoid moves the latch or bolt to either lock or unlock the door.

Electric locks can be either fail safe or fail secure, depending on the model.



Where to use them

Electric locks are often suitable for projects where a strike or electro-magnetic lock won’t fit.

- For doors with a very narrow body or frame
- Some electric locks are fire rated for use with fire doors
- Single-point locking requiring a secure anchor point
- Where both mechanical & electrical locking is needed

Electric Latches & Bolts

Electric locks are available with different mechanisms, voltages, and modes of operation. Some also have special features particular to individual models.

Fail Safe/ Fail Secure | **Mounting Options** | **Special Features**

	TYPE	MODE	VOLTAGE	FEATURE	FEATURE
DX200I	Solenoid bolt	Fail safe	12Vdc	Retry circuit	Status monitoring
ML-210N-SW	Electric latch	Reversible	12Vdc	Double action doors	Horizontal /vertical mounting
ML-300-SW	Electric latch	Reversible	12Vdc	Euro cylinder provision	1 million cycles tested
ML-350M-PL-12	Electric latch	Fail safe	12Vdc	Fire rated	Operates under sideload
ML-350M-PL-24	Electric latch	Fail safe	12Vdc	Fire rated	Operates under sideload
SDA-25	Solenoid bolt	Fail secure	12Vdc	Double action doors	Status monitoring
SDA-30	Solenoid bolt	Fail secure	12Vdc	Double action doors	Status monitoring
SDA-30I	Solenoid bolt	Fail safe	12Vdc	Double action doors	Status monitoring
SDA-35	Solenoid bolt	Fail secure	12Vdc	Double action doors	Status monitoring
SDA-35I	Solenoid bolt	Fail safe	12Vdc	Double action doors	Status monitoring

Vandal-resistant locks

The DX200I is a solenoid bolt equipped with a saw-proof roller bolt. That means it’s robustly protected from intruders seeking to gain entry by cutting through the bolt with a hacksaw. It can also be mounted either vertically or horizontally in the door frame.

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Security to Access

Also available from CDVI:

Intelligent Biometric Solutions

Powerful Video Entry

Universal Door Automation

Advanced Access Control

CDVI Ltd

Unit B1, Knaves Beech Business Centre

Davies Way

Loudwater, High Wycombe

HP10 9QR

+[44] (0) 1628 531 300

sales@cdvi.co.uk

www.cdvi.co.uk

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