

EM-10003 / EM-10004 Slimline Double Electro-Magnetic Locks

The Electro-Magnetic Locks supplied and installed by **A.J.B. Project Services Ltd** are very efficient, low power locking devices with a range of accessories to suit most applications. They have no moving parts, which make them more reliable than other locks and require little or no maintenance.

The armature and electro-magnet, when energised, holds a door securely fastened. This is achieved by creating a powerful magnetic field. When the power is cut the armature is released, thus giving access or egress through the doorway.

The magnet construction and armature material virtually eliminate residual magnetism; thus giving fail unlocked (fail-safe) release. This makes them ideal for emergency escape applications.

This form of high security locking device is becoming increasingly popular where mechanical systems are not desirable, due to the high number of moving parts that can bind in hazardous and particularly panic situations.

The Electro-Magnetic Locks supplied and installed by **A.J.B. Project Services Ltd** can be specified to work in conjunction with any access or suitable egress control system.

Monitoring

Monitoring can be achieved by two methods, internally or externally.

- **Internal:**

Monitored maglocks have a built in 'Hall Effect' sensor, this checks to see if the armature plate has properly engaged with the magnet body. When the armature is engaged, an 'Output' is given via a single pole change over relay (SPDT) which is rated at 24 Volt / 1 Amp.

For double swing doors, it is normal to utilise a Shear Maglock. These normally incorporate 'Optical Sensing' which ensures that the armature is properly aligned with the magnet before the lock is energised.

- **External:**

Unmonitored maglocks have no means of detecting when the armature plate has properly engaged with the magnet body, in this case a 'Pencil' or other form of door contact is required. Depending on the door and level of security, the contact may be flush or surface mounted. This contact is completely separate from the lock but is still an integral and important part of the access control system.

**EM-10003 / EM-10004 Slimline Double Maglock****Reference other Documents on Electro-magnetic locks**

- Standard Double Maglock EM-10060 / EM-10040
- Standard Single Maglock EM-10010 / EM-10020
- Slimline Single Maglock EM-10001 / EM-10002
- " Z & L" and " L" Brackets for inward and outward opening doors

Supplied and Installed by A.J.B. Project Services Ltd

Lock Specification:

	EM-10003	EM-10004
• Model No.	EM-10003	EM-10004
• Magnet size	500 x 41 x 24mm	
• Armature size	185 x 12 x 36mm x 2	
• Holding force	250kgs	
• Voltage/Current	500mA / 12V, 250mA / 24V	
• Voltage Tolerance	±10%	
• Door monitoring	NO	YES
• Relay Dry Contact rating	NO	1A @ 24VDC
• Unit Weight (Approx.)	5kgs	
• Finish	Silver or Gold - Satin Anodised Aluminium	
• Residual Magnetism	None	

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