

MAKING COMPARISONS

ELECTRO MAGNETIC & ELECTO MECHANICAL LOCKS



FEATURE	ELECTROMAGNETIC LOCKS (EM LOCKS)	ELECTROMECHANICAL LOCKS
Locking Mechanism	Uses an electromagnet to create a holding force between the magnet and an armature plate. No physical interlocking bolts. - works only as fail safe lock.	Combines mechanical bolts (deadbolt, latch bolt, clawbolt latch, rotating bolts, sliding bolts) with electrical components for automatic locking and other functions. Some are motor-operated - Choose fail safe or fail secure options based on functionality required - safety to occupants or security to data.
Holding Force	Offers a range of holding forces from 1,800 N to 15,000 N. Higher holding force offers more security.	Locking strength is determined by the mechanical bolt mechanisms (e.g., 20 mm deadbolt throw). Holding force is not the primary specification.
Aesthetics	Surface fixed EM locks look bulky and can be easily tempered from outside	Concealed mechanism and no scope of any tempering.
Power Requirement	Typically operates on 12V or 24V DC.	Various voltage options (e.g., 12V DC, 24V DC), battery-powered options available , and some have integrated power reserve modules
Security	Provides safe locking with high holding forces . Select models that offers tamper protection for the armature plate for better security.	Offers insurance-compliant locking and increased security with two-point or multipoint locking. Some certified for intruder protection up to resistance class 2. Designed for emergency escape. Mechanical Key override from access side.

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Emergency Escape	typically results in an unlocked state (fail-safe). Some models offer an early warning panic function that releases the door. Select model with early warning where alarm is required to avoid pilferages, thefts etc. (Plz collect more info from vendors)	A key feature of these locks is the ability to always open the door from the inside for emergency escape using a lever handle or push bar (except for models that offer more both side access control).
Status Monitoring	Available with and without feedback functions for locked/unlocked status, door closed, and early warning (tamper, panic). Some models have LED indicators for magnet status. Select models as per requirements.	Many variants offer integrated status monitoring for door open/closed, locked/unlocked, lever handle operation, cylinder locking, tamper attempts, and more. Status can be transmitted as analogue or digital signals.
Applications	Suitable for applications, including office doors, toughened glass doors.	Designed for various applications, including emergency escape routes, fire/smoke doors . monitored doors in access control systems, and automatic doors .
Special Features to check	Slender design, Concealed EM lock options splash-water protection, Use of high-quality materials for extended thermal range (because EM locks heat up due to continuous power supply) and corrosion resistance.	Feature automatic locking, mechanical self-locking , options for electrical unlocking, electrically activated lever handles, and integration with access control and building management systems . Multipoint locking options for enhanced security.

Thank
You

