



7800 ELECTRIFIED MORTISE LOCKSETS

Application

Code compliant SELECTRIC® locksets stay latched even when unlocked, maintaining fire door integrity. This basic ability complies with national code requirements for up to 3-hour fire rated doors, including exit, elevator lobby and stairwell doors where electromagnetic locks and electric strikes may not be permitted.

Unlike a *magnetic lock, the failsafe SELECTRIC® 7850 function is never locked from the inside and permits uninhibited egress at all times by turning the inside manual lever, also eliminating reliance on secondary request-to-exit (REX) devices, such as motion detectors and other switching devices. When connected to the fire life safety command center, the lock releases immediately in an emergency, transforming a stairwell or elevator lobby door from a one-way exit into a two-way exit. This permits re-entry and eliminates the possibility of stairwell entrapment and potential exposure to life threatening smoke inhalation. Additionally, fire fighters are permitted uninhibited access to all floors during in an emergency, speeding life saving and fire extinguishing efforts.

While the failsafe SELECTRIC® is well suited for stairwell applications, it is important to remember that 75% of all electrified lockset installations are failsecure. The failsecure SELECTRIC® 7852 lockset functions are ideal for interior high security applications, including entry control only and entry and egress control. For high profile installations requiring security with superior aesthetics, failsafe and failsecure SELECTRIC® locks eliminate the need for exposed and vulnerable locking devices, such as electric strikes, magnetic locks and REX devices.

Facility applications include: Commercial High-Rise Buildings, Industrial and Technology Centers, Health Care, Transportation, Government and Military Facilities, Museums and Universities. Door applications include: Office and work center doors, mantrap doors, stairwell doors, elevator lobby doors, and exit doors.

Code Compliance

UBC, SBC, BOCA, IBC, IFC, NFPA, UFC, California Building Code, Chicago Building Code.
UL, CSFM and MEA Listed.

Listings

UL Listed: Electrically Controlled Single Point Locks & Latches
CSFM Listed: California State Fire Marshal

*Misapplication

The use of electromagnetic locks is not recommended for stairwell doors for several reasons. (1) National codes have no provision for locking the interior side of stairwell doors at any time. (2) When a magnetic lock is energized the door is locked on the interior and exterior. (3) Egress ability relies upon the proper installation and reliability of a secondary switching device and/or relay (integrated or external), rather than the inherently safe manual lever egress operation of an electrified lockset. (4) Codes do not permit the use of a wall mounted exit switch for stairwell door egress. This requires both prior knowledge and two actions to achieve egress, as opposed to the single natural motion of lever rotation provided by electrified lockset.

Electric strikes are not permissible on stairwell doors at any time. Failsafe electric strikes do not keep the door latched when unlocked, failing to maintain fire door integrity. Failsecure electric strikes are incapable of releasing during an emergency.

Approval of these products by local inspectors may not qualify as code compliant and may be indicative of code misinterpretation.

