

Electrified Mortise Locks

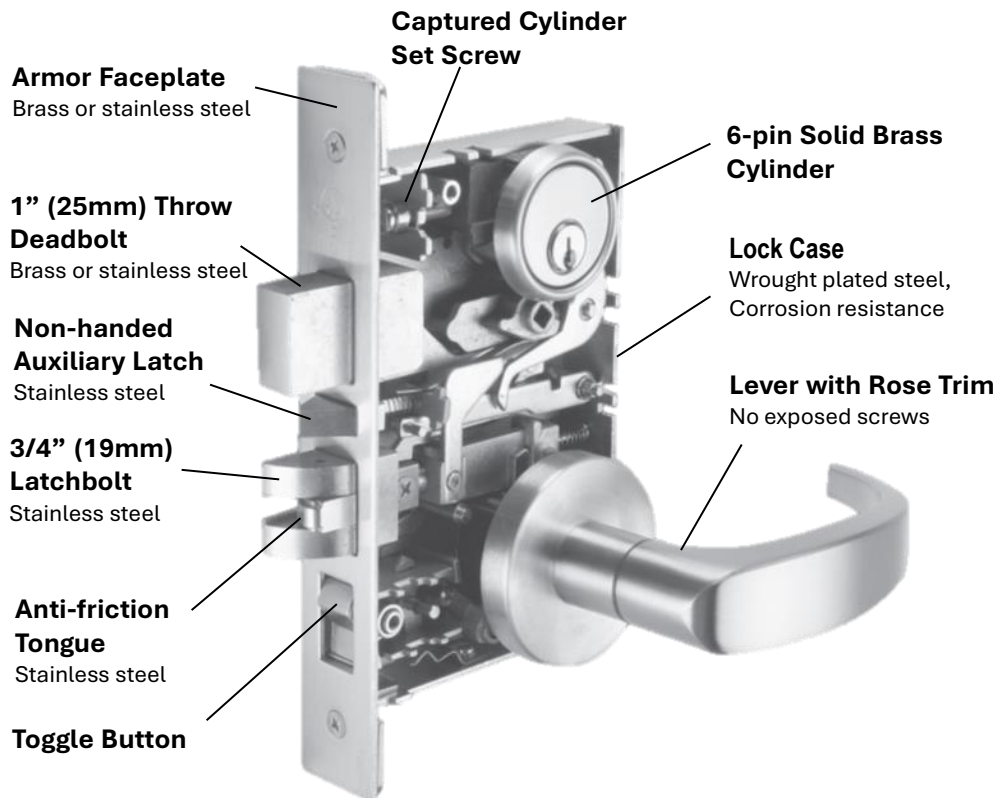
M Series

No. 2081, 2082

Mortise Locks – M Series

ANSI 156.13 Grade 1, Extra Heavy Duty

The M Series mortise locks comply with American National Standard Institute requirement (ANSI A156.13 – 2017 Grade 1) and provide a full range of multiple models to meet different demand for commercial, institutional, and industrial applications.



Features

- Full reversible design.
- No exposed mounting screws on outside and inside trims.
- It can retrofit American Schlage L9000 Series mortise lock bodies.
- Outside lever is *clutch freewheeling* design. The lever rotates when the lever is locked preventing excessive force from being applied to the horizontal level. This design can decrease the lever to be broken or damaged.

Certifications

- Meet ANSI A156.13 Series 1000 Grade 1 requirement
- UL/cUL listed to Canadian safety standard for A label (3-hour fire door); stamped letter F and UL symbol on armor faceplate
- Meet positive pressure requirements UL 10C and UBC 7-2 (1997)

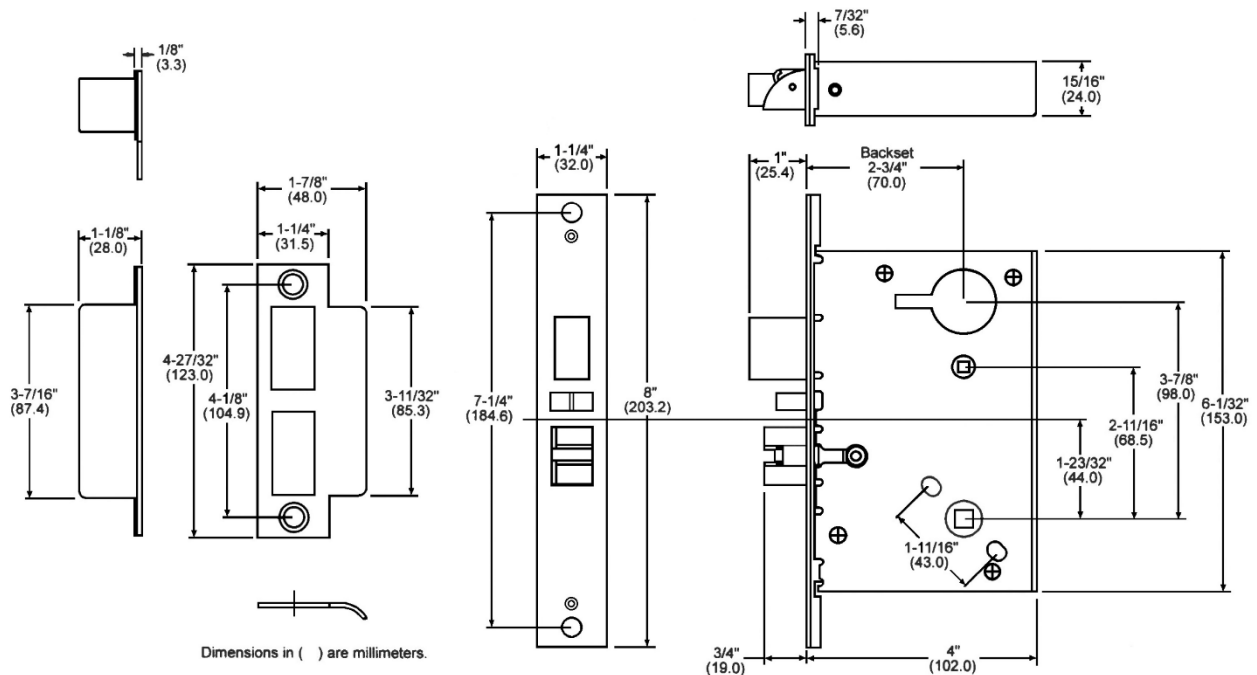
Mortise Locks – M Series

ANSI 156.13 Grade 1, Extra Heavy Duty

Specifications

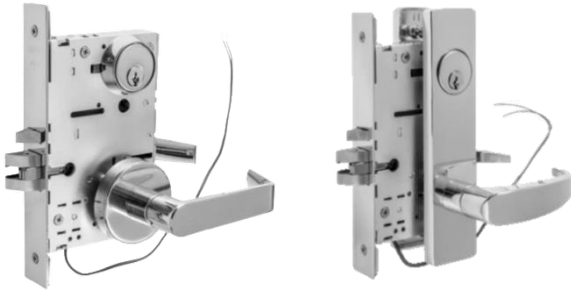
For Doors	1-3/4" (44.5mm) thick standard. For doors over 1-3/4" (44.5mm), specify door thickness
Lock Hand	Lock bodies are easily filed reversible, no need to specify hand when ordering
Backset	2-3/4" (70mm) only
Lock case	Heavy duty wrought steel; zinc dichromate plated
C to C	⌀ lever to ⌀ cylinder is 3-7/8" (98mm)
Armor Faceplate	Stainless steel; 8" x 1-1/4" (203.2mm x 32.0mm); ANSI Standard A115.1
Deadbolt	1" (25.4mm) throw; hardened stainless steel
Latchbolt	3/4" (19mm) throw; one-piece stainless steel with anti-friction reversible tongue
Auxiliary Latch	Stainless steel, non-handed
Toggle button	High rust-resistant chrome plated zinc alloy
Trims	As specified, see page 14~16.
Strike	Stainless steel; ANSI Standard A115.1; curve lip with dust box
Cylinders	Our lockcase can receive cylinders from other manufacturers. For details and Cam type, please see page 18.
Masterkeying	Can be masterkeyed or grand masterkeyed, construction keying available
Finishes	US3, US4, US10, US10B, US26, US26D, US32, US32D

Dimensions



Electrified Mortise Locks – M Series

Model No. 2081 & 2082



Applications

Security and restricted access areas in the engineering rooms, computer rooms, hospital equipment, cashier rooms, laboratories, radar control rooms, telephone equipment rooms, narcotics rooms, and any security control center.

Regulating Device

- This lock can be used by keypad access controls, access card readers, security consoles, automatic time devices and computerized controls.
- All installations should be in accordance with your local electrical codes or National Electrical code NFPA70 in the USA.

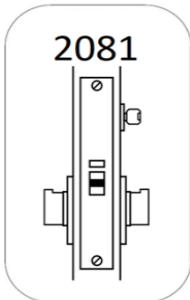
Electrical Specifications

- Voltage: 12 or 24 VDC
- Current: 0.3A at 24VDC or 0.6A at 12VDC
- Ambient Temperature:
Max. + 140 °F(+60 °C), Min. -22 °F (-30 °C)

Electrified Functions

EL: Electrically Locked (Fail Safe) **EU**: Electrically Unlocked (Fail Secure)

Model No. 2081

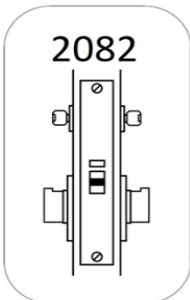


- Key outside retracts latch bolt except when outside lever is locked.
- Outside lever retracts latch bolt except when outside lever is locked.
- Inside lever is always free for immediate egress
- Auxiliary latch deadlocks latch bolt when door is closed.

No. **2081EL** - Power ON, outside lever is locked by solenoid.

No. **2081EU** - Power ON, outside lever is unlocked by solenoid.

Model No. 2082



- Key on either side retracts latch bolt except when both levers are locked.
- Lever from either side retracts latch bolt except when both levers are locked.
- Lever cannot be locked separately, only together.
- Auxiliary latch deadlocks latch bolt when door is closed.

No. **2082EL** - Power ON, both levers are locked by solenoid simultaneously.

No. **2082EU** - Power ON, both levers are unlocked by solenoid simultaneously.

*Caution:

Double cylinder locks are not recommended to use on any door in any building for the life safety for egress in case of emergency.

Monitoring Options

REX (RX) – It monitors the lever and alerts when the lever rotates.

LM - It monitors the full extension of the main latch. (Latch bolt monitor)

AM - It monitors the position of the auxiliary latch. (Auxiliary latch monitor)



Electrified Mortise Locks – M Series

Solenoid Type & Motor Type



Electrified Functions

EL: Electrically Locked (Fail Safe)

Outside trim (or both outside and inside trim depending on the lock function) is locked when power is applied and unlocked when power is removed. Lockset will unlock in the event of a power failure.

EU: Electrically Unlocked (Fail Secure)

Outside trim (or both outside and inside trim depending on the lock function) is unlocked when power is applied and locked when power is removed. Lockset will lock in the event of a power failure.

Key Function

The latch bolt may be momentarily retracted with a key even though the lockset is electrically locked.

Electrical Specifications

Solenoid Type

- Voltage: 12VAC/12VDC or 24VAC/24VDC (Voltage must be specified when ordering)
- Current: .612mA @12VAC/12VDC; .330mA @24VAC/24VDC
- Power Consumption: 8 Watts
- Solenoid: The solenoid with this exit hardware is usually installed in internal temperature-controlled environments (around 23°C/73°F)

Motor Type

- Voltage: 12 - 24V AC/DC (11V - 30V)
(Voltage switch accessible with armor front removed)
- Current: 250 mA MAX Inrush, 10mA MAX Holding
- Non-polarized Leads
- Switch Slider Settings: Yellow - Fail Secure
Green - Fail Safe

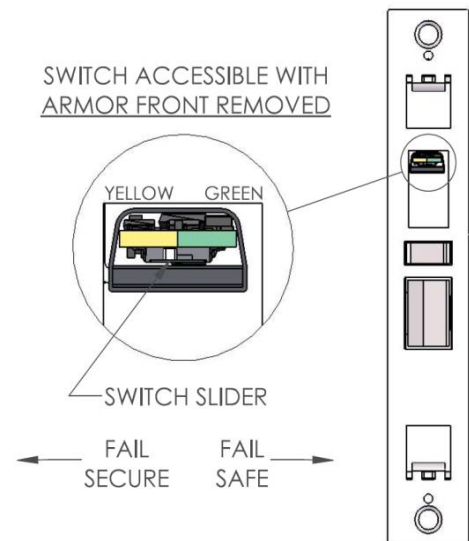
Model Numbers

- No. 2081MEL - Outside lever is locked when power is applied.
- No. 2081MEU - Outside lever is unlocked when power is applied.
- No. 2082MEL - Both levers are locked when power is applied.
- No. 2082MEU - Both levers are unlocked when power is applied.

***Note:** Power must be applied to the lock after a switch slider setting change.

Monitoring Options

- REX (RX) – It monitors the lever and alerts when the lever rotates.
- LM - It monitors the full extension of the main latch. (Latch bolt monitor)
- AM - It monitors the position of the auxiliary latch. (Auxiliary latch monitor)



Mortise Locks – M Series

Lever Trim

All M Series are available with the sectional or escutcheon trim.



Mortise Lock with Rose & Lever Trim

- Trim Type No. LR01
- This Mortise Lock is model no. M3485-LR01, Entrance Lock, which is coupled with a round rose trim and lever type no. 01.



Mortise Lock with Escutcheon & Lever Trim

- Trim Type No. LE02
- This Mortise Lock is model no. M4486-LE02, All Purpose Lock, which is coupled with a wide escutcheon trim and lever type no. 02.



Mortise Lock with Escutcheon & Lever Trim

- Trim Type No. NE05
- This Mortise Lock is model no. M2413-NE05, Dormitory or Exit Lock (F13), which is coupled with a narrow escutcheon trim and lever type no. 05.

Trim Feature

- The M Series mortise lock is coupled with clutch freewheeling trim that is designed for areas where are susceptible to vandalism including schools, universities, multitenant buildings, apartments, athlete's locker rooms at indoor stadiums and gymnasiums or other public buildings.
- The clutch freewheeling design allows the outside lever to swing freely and down to 45°. The outside lever rotates when the door is locked preventing excessive or abusive force from being applied to the lever trim. This advantage can eliminate resetting the trim after vandalism attempts because the lever returns to its original position automatically, also it can decrease the lever handle to be broken and damaged.

Trim Material

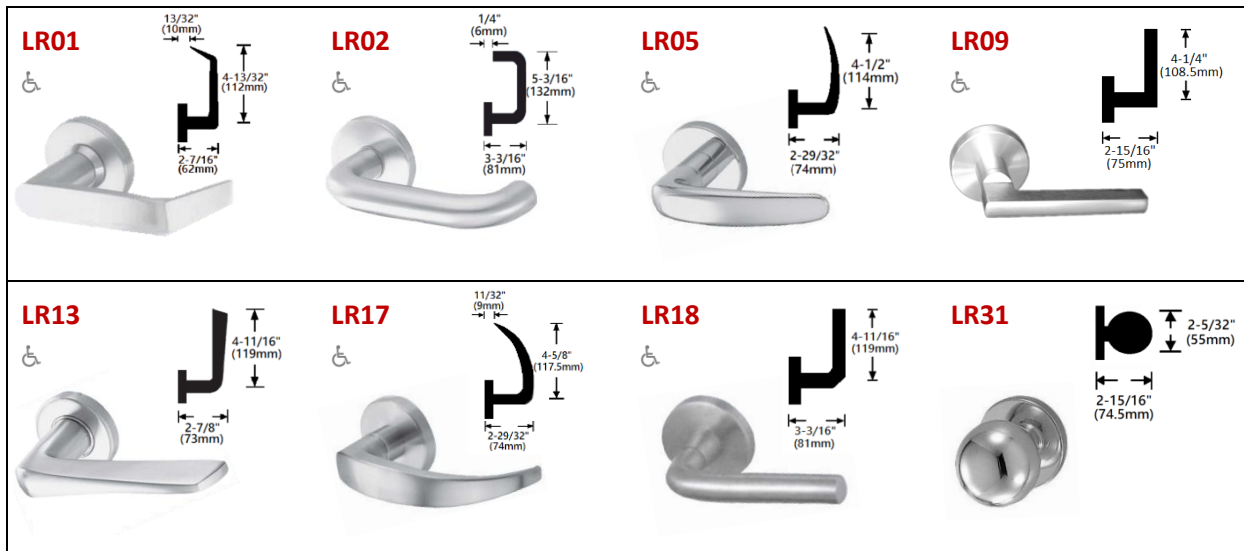
- L Escutcheon Type 100% stainless steel, Wrought forming
- N Escutcheon Type Cold forged brass or bronze, Cast forming
- Round Rose Brass, bronze or stainless steel, Wrought forming
- Knob Type 100% stainless steel, Forming by deep drawing press

Finishes

- US3, US4, US10, US10B, US26, US26D, US32, US32D

Mortise Locks – M Series

Lever Trim – Rose Design (LR)



Dimension

- Diameter: 2-7/16" (62mm)
- Projection: 13/32" (10mm)

Lever Material

Lever	Material Options
No.01	Forged brass or bronze, cast stainless steel, or cast zinc alloy
No.02	Hollow/solid tube, extruded or cast stainless steel
No.05	Forged brass or bronze, cast stainless steel, or cast zinc alloy
No.09	Cast zinc alloy
No.13	Forged brass or bronze, cast stainless steel, or cast zinc alloy
No.17	Forged brass or bronze, cast stainless steel, or cast zinc alloy
No.18	Hollow tube, extruded stainless steel
No.31	Stainless steel

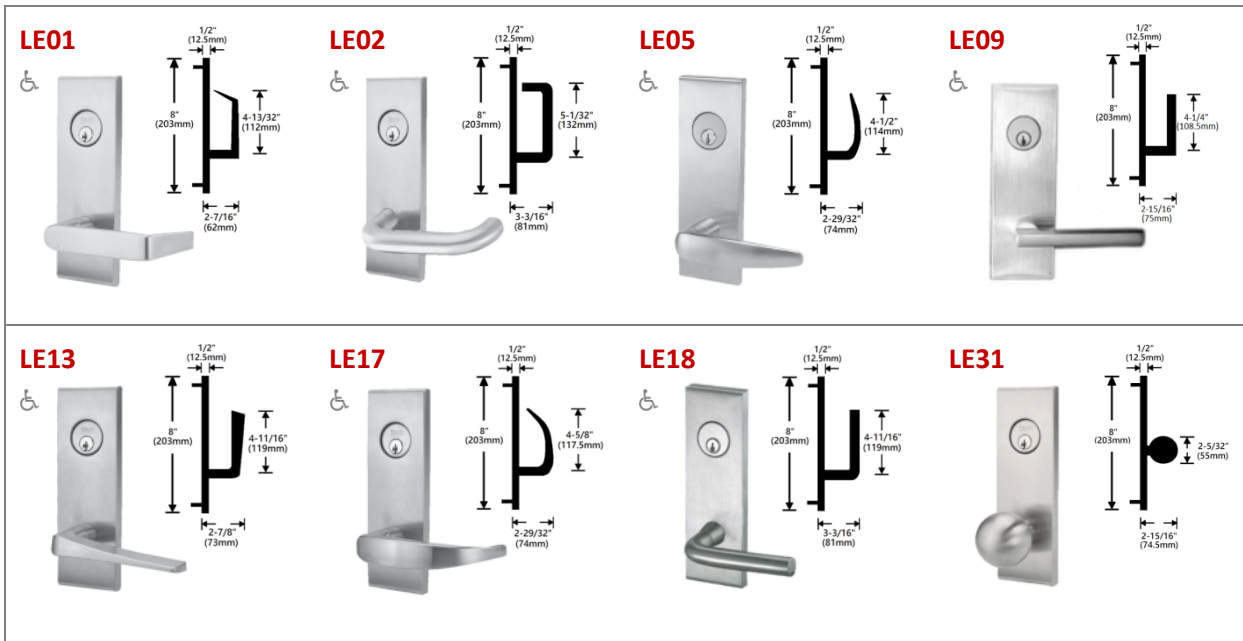
- Lever type No. 01, 02 and 17 meet California State Fire Marshall Standard.
- Lever costs vary depending upon material used. When asking a quote, please indicated your material choice: Forged Brass/Bronze (BR), Cast Stainless Steel (SS), Cast Zinc Alloy (ZA)
- If a complete unit of mortise lock is ordered, the escutcheon design of both lever and knob trims does not use a cylinder guard as the cylinder is protected by escutcheon. The cylinder guard is just used for the rose design of both lever and knob trims, but not standard furnishing.

Finishes

- US3, US4, US10, US10B, US26, US26D, US32, US32D

Mortise Locks – M Series

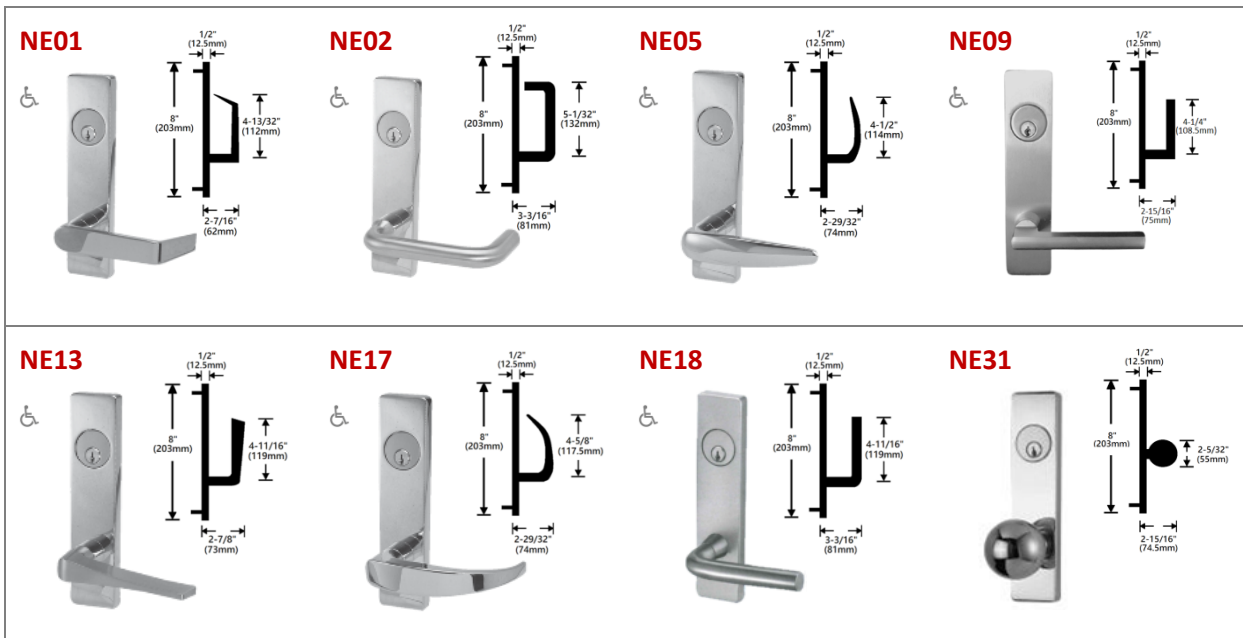
Lever Trim – Escutcheon Design – Wide Style (LE)



Dimension

- Size: 8" x 2-9/16" x 12" (203mm x 65mm x 12.5mm)

Escutcheon Designs / Narrow Style (NE)



Dimension

- Size: 8" x 1-27/32" x 12" (203mm x 46.5mm x 12.5mm)