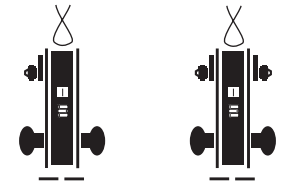
P513-541

SCHLAGE

ALL INSTALLATIONS SHOULD BE IN ACCORDANCE WITH LOCAL ELECTRICAL CODES AND NATIONAL ELECTRICAL CODE, NFPA 70

L-Series Electrified Lock Installation Instructions



EL, Electrically Locked (Fail Safe): Outside knob/lever is continuously locked electrically. Latchbolt is retracted by key outside or by knob/lever inside. Switch or power failure allows outside knob/lever to retract latchbolt. Auxiliary latch deadlocks latchbolt when door is closed. Inside knob/lever is always free for immediate exit.

EU, Electrically Unlocked (Fail Secure): Outside knob/lever is continuously unlocked electrically. Latchbolt is retracted by key outside or by knob/lever inside. Auxiliary latch deadlocks latchbolt when door is closed. Inside knob/lever is always free for immediate exit.

Electrical Requirements

- Voltage: 24VAC or 24VDC (Maximum 26V, Minimum 22V)
- Peak Current: Amps 1.3 at 5 to 15 second intervals
- Holding Current: Amps .135 between peak current intervals
- Operating Temperature: Maximum +140°F, Minimum -22°F

L-Series Typical Installation

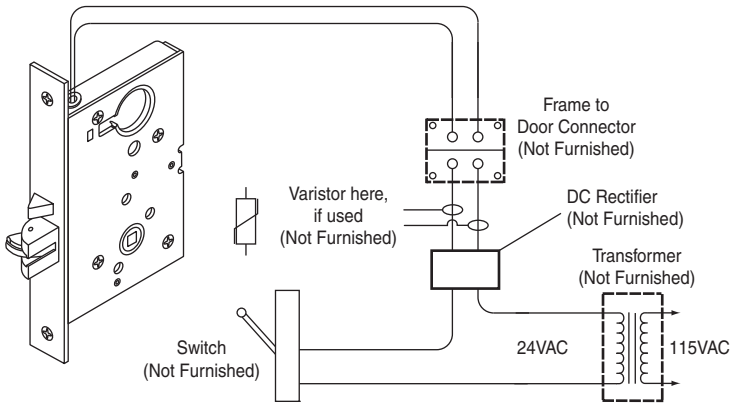
Electrified L-Series locks apply full voltage to the solenoid upon initial application of power and reapply full voltage at 5–15 second intervals through a transistorized circuit.

- Each lock should have its own transformer. Two or more locks may be operated in parallel from a single transformer provided it has the necessary current rating.

➔ **DO NOT** connect locks in series from a higher voltage rated transformer.

➔ **IMPORTANT!** Connection of locks to a supply circuit containing electromagnetic devices is not recommended. If used, the resulting transient voltages could damage the lock. The transient voltage must be carefully suppressed at the equipment producing it before connecting the lock to the same circuit. A varistor rated at 35 V (peak recurrent) may be used for transient voltage protection.

Typical Wiring Diagram for Electrified L-Series Locks



EL/EU Solenoid and Driver Replacement Kit

Order by L283-053

L-Series Request-to-Exit (RX) Installation Instructions

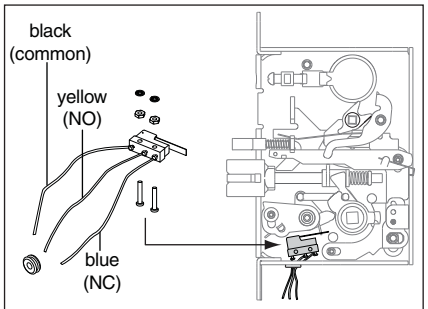
A microswitch inside the lock case is activated when the knob/lever is rotated. The switch signals the use of the opening to security systems. Order by L283-263 for L-Series locks, and L283-239 for LV-Series locks.

- Use proper wire gauge to minimize voltage drop.

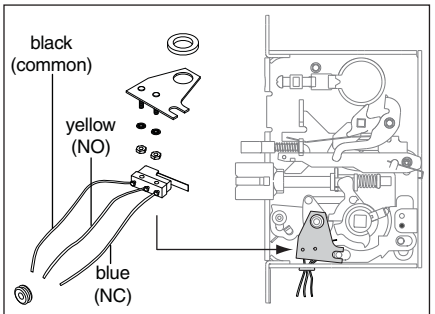
Electrical Requirements

- Amps 0.5 Volts 24 DC
- Operating Temperature: Maximum +140°F, Minimum -22°F

All power requirements shown are for single lock operation.



L-Series RX Switch (L283-263)

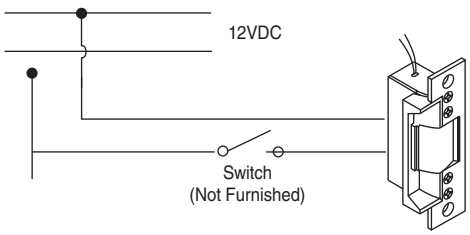


LV-Series RX Switch (L283-239)

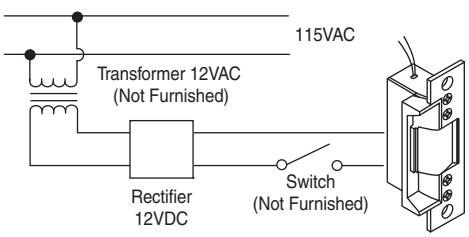
Electric Latch Release 10-042 Installation Instructions

- 12 Volts DC
- Not designed for continuous and electrical locking (fail safe), or mortise type latches.

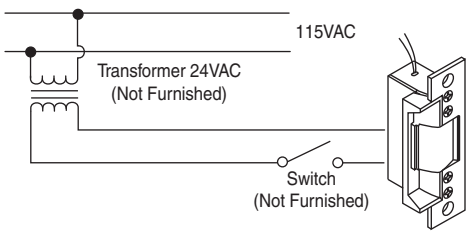
Typical Wiring Diagram
DC Power Source – Silent Operation



Typical Wiring Diagram
AC Power Source – Silent Operation



Typical Wiring Diagram
AC Power Source – Audible Operation



See reverse side for D-Series Electrified Locks

D-Series Electrified Locks
D80PDEL, D80PDEU
Installation Instructions

All installations should be in accordance with local electrical codes and National Electrical Code, NFPA 70

Electrically Locked (Fail Safe): Auxiliary latch deadlocks latchbolt when door is closed. Outside knob or lever continually locked electrically until unlocked by key, switch, or power failure. Inside knob or lever always free for immediate exit.

Electrically Unlocked (Fail Secure): Auxiliary latch deadlocks latchbolt when door is closed. Outside knob or lever continually locked until unlocked by key or electrical current. Inside knob or lever always free for immediate exit.

D80PDEL D80PDEU

Electrical Requirements

- Amps .15; Volts 24 AC
- Amps .35; Volts 24 DC
- Operating Temperature: Maximum +151°F, Minimum -31°F

D-Series Typical Installation

- Provision must be made to route low voltage wires to the lock. Attach wires to 6" pigtail of rectifier (for AC operation) or solenoid (for DC operation).
- Power transfer unit and low voltage wiring are not furnished.
- All power requirements shown are for single lock operation. For multi-lock installations, powered by a single supply, current values must be increased accordingly.
- Select proper wire size to minimize voltage drop. Voltage requirements indicated must be maintained at lock for dependable operation.

Replacement Kit

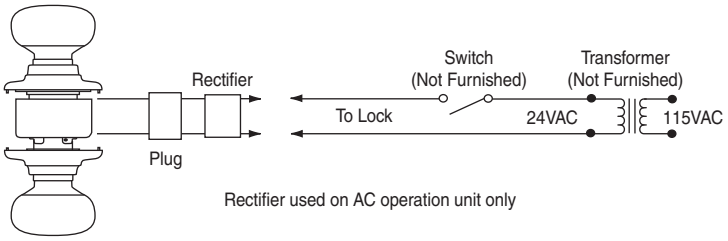
38-064 – Solenoid and Rectifier, EL (AC and DC)

38-065 – Solenoid and Rectifier, EU (AC and DC)

Note: Spacer furnished with replacement kits to be placed between solenoid and knob catch on knob designs only.

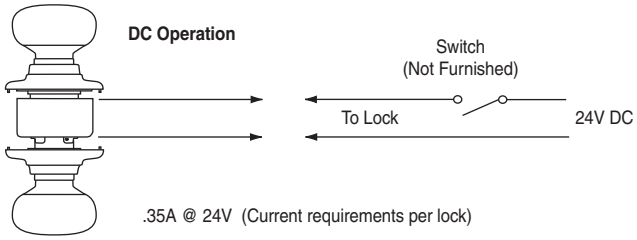
Typical Wiring Diagram for Electrified D-Series Locks

AC Power Source – EL or EU



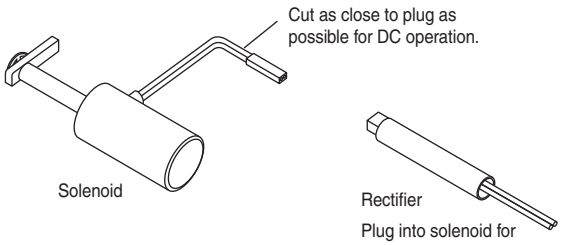
Rectifier used on AC operation unit only

DC Power Source – EL or EU



.35A @ 24V (Current requirements per lock)

AC and DC Application



See reverse side for L-Series Electrified and Request-to-Exit Locks and Electric Latch

Ingersoll Rand
Security Technologies

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