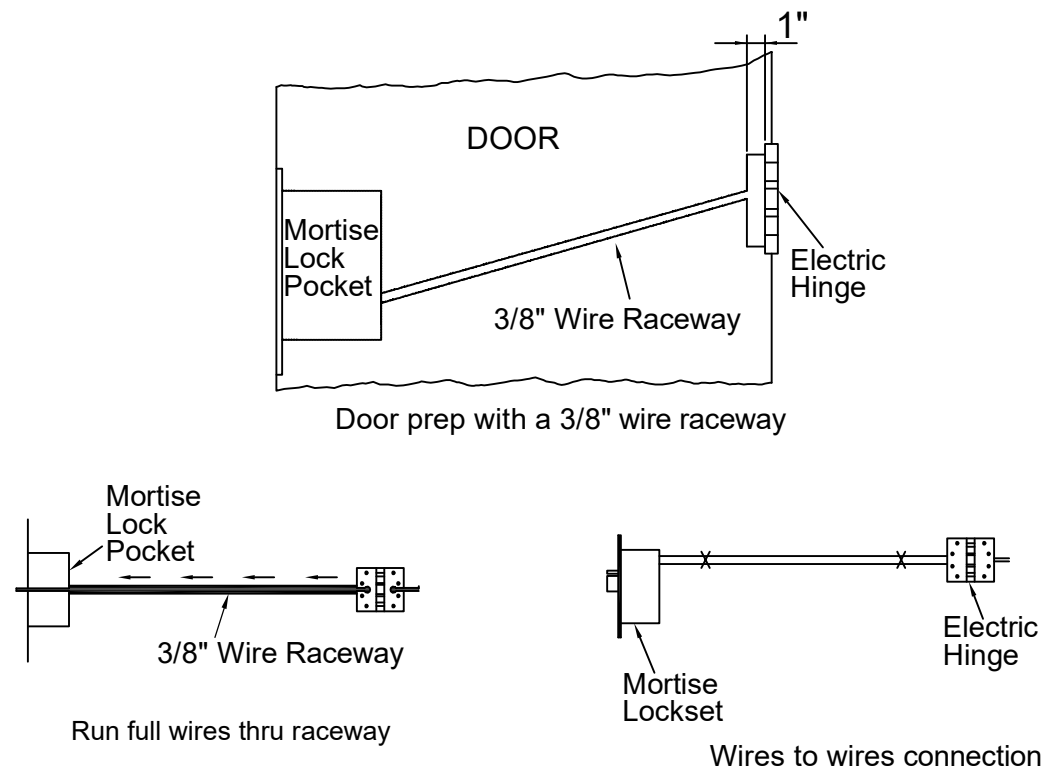




## SC400 Series (Dual Voltage) Mortise Locks, Installation Instructions

PLEASE USE MANUFACTURER'S INSTRUCTIONS AND TEMPLATE FOR BASIC DOOR PREPARATION BEFORE PROCEEDING WITH THE FOLLOWING WIRING STEPS

1. Door fabricator must provide a 3/8" diameter (minimum) raceway through door to allow the insertion of electrical wires running between the mortise lock pocket and the electric hinge.
2. Lengthen the electric hinge wires enough to connect the wires of the mortise lock case side.
3. Run the full wires from the electric hinge side through the 3/8" raceway starting at the electric hinge and exiting into the mortise lock case pocket.
4. Mount the electric hinge to the door. At this time DO NOT connect the hinge wires on the jamb side to the wires coming from the power supply.
5. Connect the wires coming from the electric hinge to the wires exiting from the mortise lock case.
6. Slip the mortise lock case into mortise lock case pocket and pay attention not to pinch any wires.
7. Fasten mortise lock case on the door per manufacturer's instructions.
8. Connect the wires from the power supply at the electric hinge on the jamb, and the door control if any. See the VI figure.
9. The product shall be wired or connected to the power source of class 2 circuits in accordance with ANSI/NFPA 70, "National Electrical Code" .



### I. Fail Safe or Fail Secure Function

#### Fail Safe Control (Power Lock) - (EL, Electrically Locked)

When power is applied, the outside trim will lock.  
When power is removed, the outside trim is unlocked.

#### Fail Secure Control (Power Lock) - (EU, Electrically Unlocked)

When power is applied, the outside trim will unlock.  
When power is removed, the outside trim is locked.

#### Key Function

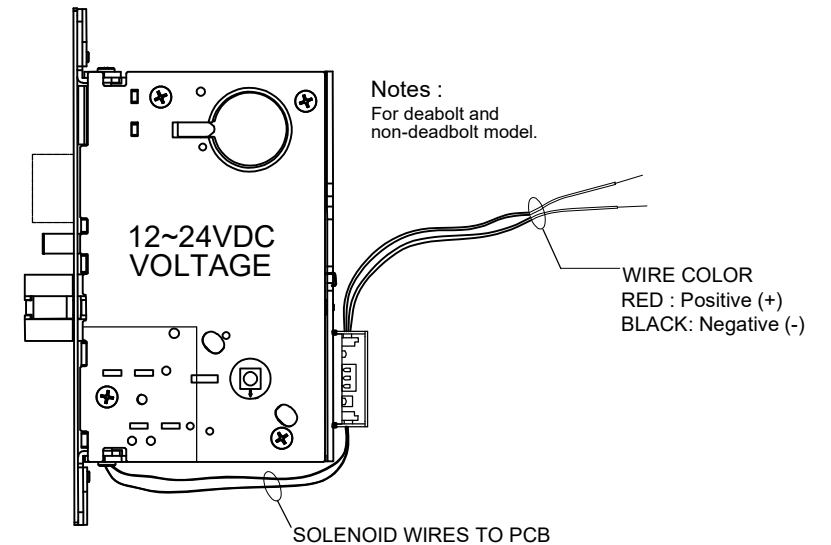
When key cylinders are installed into locks, the latchbolt may be momentarily retracted from the outside with key even if lockset is electrically locked.

#### Electrical Specifications

The solenoid and PCB are continuous duty type, keep operating voltage at  $\pm 5\%$  of rated voltage.

#### VOLTAGES

12~24 VDC



## II. Authorized Egress Function

Mortise locks with dual authorized egress monitoring also referred to as **request to exit (REX)** or **RX switch**.

### AE2 - Dual Authorized Egress

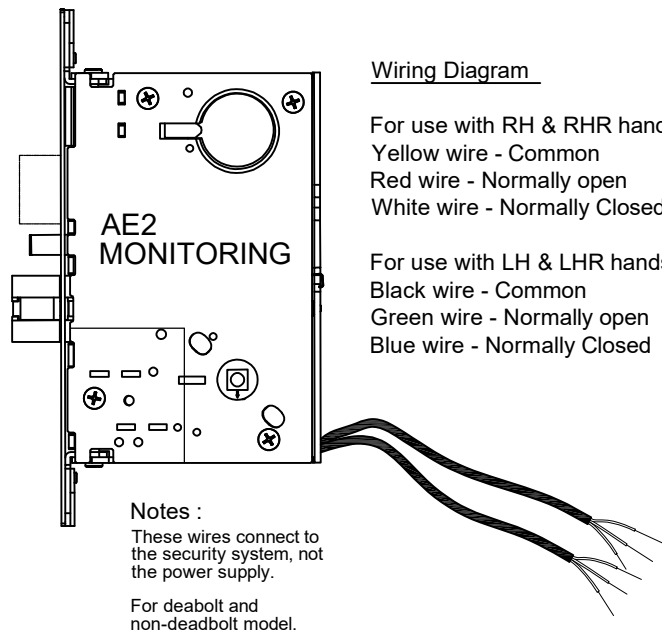
Authorized egress is a SPDT switch mounted inside the lockset. This SPDT switch monitors the activation of the inside trim "when the lockset is in the locked position only".

### Electrical Specifications

SPDT Switch:

VOLTS	CURRENT
125 VAC	3 AMP
30 VDC	2 AMP

Note: Mainly used as a dry contact monitoring switch.



## III. LM Monitoring Function

Mortise locks with **Latch Bolt monitoring (LM)** function. Also referred to as main **latch bolt monitoring function**.

### LM - Latch Bolt Monitoring

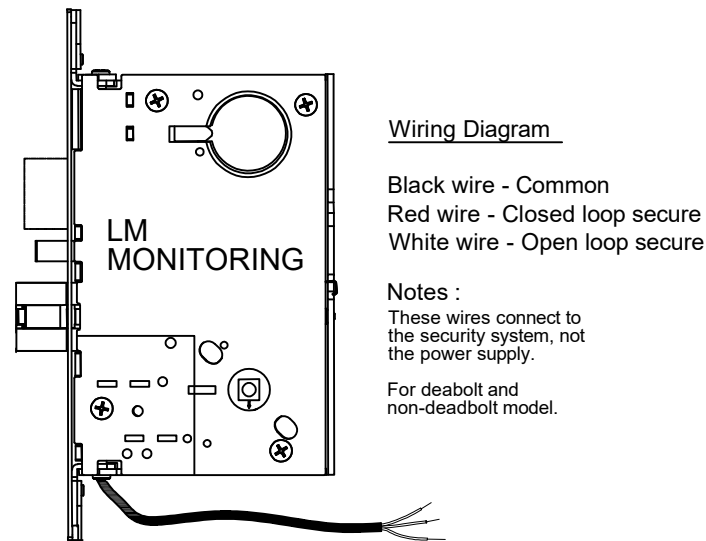
Latch Bolt monitoring is a SPDT switch mounted inside the lockset. The LM switch monitors the full extension of the main latch.

### Electrical Specifications

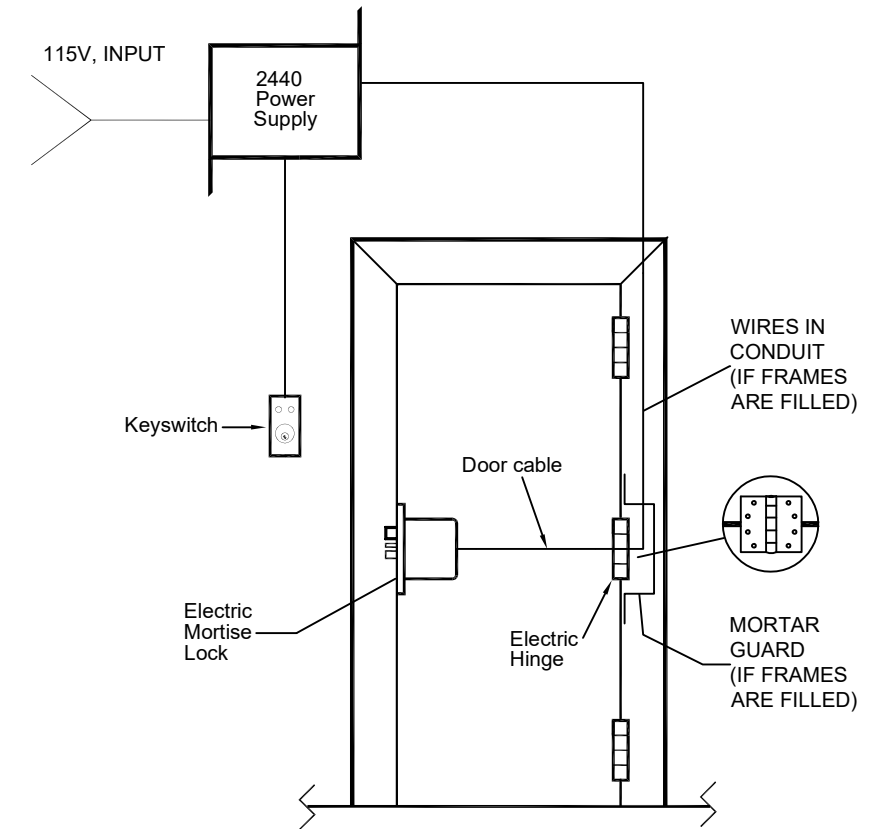
SPDT Switch:

VOLTS	CURRENT
125 VAC	3 AMP
30 VDC	2 AMP

Note: Mainly used as a dry contact monitoring switch.



## VI. Typical Wiring



**Fail Safe Control (Power on, locks the outside lever)**  
 The two wires on the lockcase go through the electric hinge to connect "NO" terminals in the 2440 power supply.

**Fail Safe Control (Power on, locks the outside lever)**  
 The two wires on the lockcase go through the electric hinge to connect "NC" terminals in the 2440 power supply.

Note:

Follow the power supply installation instructions.  
 Mortise lock manufacturer is not responsible for any malfunction due to incorrect installation.

