This instruction manual includes wiring instructions for all electromechanical 7900 or 8200 Series mortise locks with the ElectroLynx connector system. The correct wiring configuration must be selected depending on the prefix(es) and function of the mortise lock being installed. Multiple prefixes can be combined (ex: RX-LX-8270). Refer to table of contents to select appropriate wiring instruction for mortise product being installed.

Important
- Disconnect all input power before beginning installation to prevent electrical shock and equipment
- Installer must be a trained, experienced service person
- All wiring must comply with applicable local electrical codes, ordinances and regulations

CAUTION: The voltage applied to the lock solenoid must not exceed 10% of rated voltage. If the voltage exceeds this value, the solenoid may be damaged.

Specifications / Functions

Rectifier
12 or 24 Volt Internal Bridge rectifier allowing
12/24 VAC/VDC input power +/- 10%

Solenoid
Type: 24VDC, Intermittent or Continuous Duty
Current draw: .25AMP at 24VDC
Type: 12VDC, Intermittent or Continuous Duty
Current Draw: .50AMP at 12VDC
Fail Safe Models: 7970, 7972, 8270 and 8272 (each 12 or 24volts)
Fail Secure Models: 7971, 7973, 8271 and 8273 (each 12 or 24volts)

RX-, LX-, and DX- Lock Switches
Switch contact rating for all switches: 2AMP max @ 24VDC

RX- (lever monitor switches): The RX-7900 or RX-8200 Series mortise lock is designed to allow independent monitoring of inside and outside lever rotation. The lock uses two independent switches to separately monitor the case side and the cap side lever hub.
For LH and LHR doors, outside monitor is case side and inside monitor is cap side.
For RH and RHR doors, outside monitor is cap side and inside monitor is case side.

LX- (latch monitor switch): The LX-8200 Series mortise lock provides positive indication of latch extension or retraction (when either lever is rotated retracting the latch, the latch is being retracted by key, or if the latch itself is depressed).

DX- (deadbolt monitor switch): The DX-8200 Series is designed to monitor the position of the deadbolt.

Table of Contents

<table>
<thead>
<tr>
<th>Important/CAUTION</th>
<th>Specifications/Functions</th>
<th>Installation Notes</th>
<th>Installing and wiring locks with solenoids</th>
<th>Installing and wiring locks without solenoids</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>2</td>
<td>3: 7970 / 8270, 71, 72, or 73</td>
<td>RX-7900 &amp; RX-8200 Series</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>4: RX-7970/8270, 71, 72, 73</td>
<td>RX-LX-8200 Series</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>4: RX-LX-8270, 71, 72 and 73</td>
<td>RX-DX-8200 Series</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>5: LX-8270, 71, 72 and 73</td>
<td>LX-8200 Series</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>DX-8200 Series</td>
</tr>
</tbody>
</table>

ASSA ABLOY, the global leader in door opening solutions
1. Install mortise lock and electric hinge. With new applications, a raceway harness with 8 & 4-pin connectors will be pre-installed inside the door by ASSA ABLOY door manufacturer when specified during ordering process. Raceway harness kits are also available for retrofit applications.

2. If door does not have a raceway harness with connectors, either consult factory for raceway retrofit kit or cut the connectors off product and hardwire, as required.

3. Wiring to pigtail harness is per facility wiring requirement. Follow individual instructions below.

ElectroLynx® Connector System Notes

The system is designed to be installation friendly with connectors from the electric hinge through the door to the lock. The only wiring is to the harness which plugs into the electric hinge.

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ElectroLynx® is a registered trademark of ASSA ABLOY, Inc.

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Sample wiring 8270-24 Volt Series solenoid locks with a 24VDC Regulated and Filtered Power Supply. A 12V lock would use a 12 volt supply.

Note: Wire 7970/8270 or 7972/8272 (Fail Safe) Locks to switch as shown. For 7971/8271 or 7973/8273 (Fail Secure) Locks wire switch NO (normally open) contact to red wire of pigtail harness.

Note: 12V Lock has Red Heat Shrink
24V Lock has Black Heat Shrink

Sample wiring (8270-24 volt) Fail Safe solenoid with a 120/24VAC transformer
Solenoid with RX- (7900 & 8200 locks)

Solenoid with RX- and LX- wiring (8200 locks only)

For LH and LHRB doors, outside monitor is the case side and inside monitor is the cap side.

For RH and RHRB doors, outside monitor is the cap side and inside monitor is the case side.

The RX- switches are in the Normal Open position when levers are untouched and the latch is extended.

RX- switches monitor inside and outside levers independently

- Black (-), 1
- Red (+), 2
- Orange (NC), 5
- Green (NO), 4
- Yellow (NC), 8
- Blue (C), 6
- Brown (NO), 7
- White (C), 3

Solenoid

Connections

RX- CAP Side

Switch

Connections

RX- CASE Side

Switch

Connections

175
6 4
3
28

Note: 12V Lock has Red Heat Shrink
24V Lock has Black Heat Shrink

The FX- switch monitors latch movement outside levers independently

FX- switches are in the Normal Open position when latch is extended.

LX- switch is in the Normal Open position when the latch is extended.

The LX- switches are in the Normal Open position when levers are untouched and the latch is extended.

Electric Hinge

With 8-pin connectors

Pigtail harness with 8-pin connector

Raceway harness with 8-pin connectors

RX-LX-8270,71,72 or 73 lock with 8 & 4-pin connectors

Black (-), 1
Red (+), 2
Orange (NC), 5
Green (NO), 4
Yellow (NC), 8
Blue (C), 6
Brown (NO), 7
White (C), 3

Solenoid

Connections

RX- CAP Side

Switch

Connections

RX- CASE Side

Switch

Connections

Tan (NC), 4
Pink (NO), 3
Grey (C), 2

LX- Switch

Connections

1
42
3
8 wires
Tan (NC)
Pink (NO)
Grey (C)

Solenoid and RX- wiring (8 wires)

LX- wiring (3 wires)

Note: 12V Lock has Red Heat Shrink
24V Lock has Black Heat Shrink

Solenoid with RX- (7900 & 8200 locks only)
## Solenoid with LX- wiring (8200 locks only)

**52-2978 Adaptor Harness** (8 & 4-pin connectors to 6 wires and 8-pin connector). Plug in between lock and raceway harness.

### Electric Hinge
- **Solenoid with 8-pin connector**

### Pigtail Harness with 8-pin connector

The **LX- switch** monitors latchbolt retraction.

**LX - Switch Connections**
- Blue (NC), 6
- Orange (NO), 5
- Green (C), 4
- Red (+), 2
- Black (-), 1

**Solenoid Connections**
- Red (+)
- Black (-)
- Tan (NC)
- Pink (NO)
- Grey (C)

### RX- wiring (7900 & 8200 locks)

**RX - Switches** monitor inside and outside levers independently.

**RX - CAP Side Switch Connections**
- Yellow (NC), 8
- Brown (NO), 7
- Blue (C), 6

**RX - CASE Side Switch Connections**
- Orange (NC), 5
- Green (NO), 4
- White (C), 3

The **RX- switches** are in the Normal Open position, when levers are untouched and the latch is extended.

**RX- wiring (6 wires)**

**RX-7900 or RX-8200 series lock with 8-pin connector**

**Raceway harness with 8 & 4-pin connector. 4-pin connectors are not used here.**

### RX-8270, 71, 72 or 73 lock with 8 & 4-pin connectors

**LX- wiring (3 wires)**

### Raceway harness with 8 & 4-pin connector. 4-pin connectors are not used here.

For LH and LHRB doors, outside monitor is the case side and inside monitor is the cap side.

For RH and RHRB doors, outside monitor is the cap side and inside monitor is the case side.

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For LH and LHRB doors, outside monitor is the cap side and inside monitor is the case side.

For RH and RHRB doors, outside monitor is the case side and inside monitor is the cap side.

The latch is extended.

The DX- switch is in the Normal Open position when the deadbolt is projected.

The RX- switches are in the Normal Open position when levers are untouched and the latch is extended.

The RX- switches are in the Normal Open position when levers are untouched and the latch is extended.

For RH and RHRB doors, outside monitor is the cap side and inside monitor is the case side.

For RH and RHRB doors, outside monitor is the cap side and inside monitor is the case side.
**LX- wiring (8200 only)**

LX- switch monitors latchbolt retraction

- Green (NC), 4
- White (NO), 3
- Red (C), 2

The LX- switch is in the Normal Open position, when the latch is extended.

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**DX- wiring (8200 locks only)**

DX- switch monitors deadbolt position

- Green (NC), 4
- White (NO), 3
- Red (C), 2

The DX- switch is in the Normal Open position, when the deadbolt is projected.