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 actuator must not exceed 10% of rated voltage. If the voltage exceeds this value, the actuator may be damaged.

Specifications / Functions

**Ecoflex Actuator**
Type: 12/24VDC, Continuous Duty
Actuator draw = .015 Amp
Maximum 2 locks per 1 Amp power supply (1/2 Amp peak current draw)
Fail Safe Models: 7970, 7972, 8270 and 8272 (each 12/24 volts)
Fail Secure Models: 7971, 7973, 8271 and 8273 (each 12/24 volts)

**RX-, LX-, and DX- Lock Switches**
Switch contact rating for all switches:
2 AMP 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.

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**Installation Notes**

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.

**IMPORTANT:**

The plug and receptacle connectors are designed to mate and lock together as shown in the illustration. Plug the connectors into each other with the locking mechanism aligned as indicated.

Do **NOT** force connectors on any other way.

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**Check Polarity:**

Verify + (red) wire

 Fail Secure

 Fail Safe

*LX / DX Actuator*

 Fail Secure

 Fail Safe

*Patent Pending*
Sample wiring 8270-24 Volt Series actuator 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.*

Sample wiring (8270-24 Volt) Fail Safe actuator with a 120/24VAC transformer
**Ecoflex RX- (7900 & 8200 locks)**

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

**RX - CAP Side**

- Yellow (NC), 8
- Brown (NO), 7
- Blue (C), 6

**RX - CASE Side**

- Orange (NC), 5
- Green (NO), 4
- White (C), 3
- Red (+), 2
- Black (-), 1

**Solenoid Connections**

RX-7970, 71, 72 or 73 or RX-8270, 71, 72 or 73 lock with 8-pin connector

**Raceway harness with 8 & 4-pin connectors**

**Pigtail harness with 8 pin connectors**

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

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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**Ecoflex RX- and LX- wiring (8200 locks only)**

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

**RX - CAP Side**

- Yellow (NC), 8
- Brown (NO), 7
- Blue (C), 6

**RX - CASE Side**

- Orange (NC), 5
- Green (NO), 4
- White (C), 3
- Red (+), 2
- Black (-), 1

**Solenoid Connections**

LX-switch monitors latchbolt movement

**LX - Switch Connections**

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

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

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.
Actuator 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.

LX- switch monitors latchbolt retraction

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

**Solenoid Connections**

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

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.

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- LX- wiring (8200 locks only)

RX- switches monitor inside and outside levers independently

<table>
<thead>
<tr>
<th>RX - CAP Side Switch Connections</th>
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</table>

Pigtail harnesses with 8 & 4-pin connectors

Electric Hinge with 8 & 4-pin connectors

Raceway harness with 8 & 4-pin connectors

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

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

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.

RX- DX- wiring (8200 locks only)

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

<table>
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</tr>
</tbody>
</table>

Pigtail harnesses with 8 & 4-pin connectors

Electric Hinge with 8 & 4-pin connectors

Raceway harness with 8 & 4-pin connectors

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

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.
**LX- wiring (8200 only)**

52-2946 Adaptor Harness (8 & 4-pin connectors to 5 wire and 8-pin connector). Plug in between lock and raceway harness.

**LX- switch monitors latchbolt retraction**

- **LX - Switch Connections**
  - Green (NC), 4
  - White (NO), 3
  - Red (C), 2

Pigtail Harness with 8-pin connector

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

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

52-2946 Adaptor Harness (8 & 4-pin connectors to 5 wire and 8-pin connector). Plug in between hinge and raceway harness.

**DX- switch monitors deadbolt position**

- **DX - Switch Connections**
  - Green (NC), 4
  - White (NO), 3
  - Red (C), 2

Pigtail Harness with 8-pin connector

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

**DX- wiring (3 wires)**

- Tan (NC)
- Pink (NO)
- Grey (C)

**LX-8200 series lock with 4-pin connector**

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

** DX-8200 series lock with 4-pin connector**

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