FUNCTION DESCRIPTION

3480EL - Fail Safe Control [GREEN]
Outside trim is locked when power is applied and unlocked when power is removed (storeroom function when energized). Lockset will unlock in the event of a power failure.

3480EU - Fail Secure Control [YELLOW]
Outside trim is unlocked when power is applied and locked when power is removed. Lockset will lock in the event of a power failure. This is the default lock setup.

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

Request to Exit
Request to Exit (RX) is a SPDT switch that is mounted inside the interior trim of the lockset. The RX switch monitors the activation of the inside trim.

ELECTRICAL SPECIFICATIONS

3480EL and 3480EU
Motorized Locking and Unlocking provides 12V/24V Fail-Safe/Fail-Secure operation with low power consumption.

Voltage: 12-24V AC/DC (11V – 30V)
Current: 250 mA MAX Inrush, 10 mA MAX Holding
Non-polarized leads
Fail-Secure (EL) by Default

3480RX
SPDT mechanical switch. Mainly used as a dry contact monitoring switch.

Voltage
Current
125 VAC 3 AMP
30 VDC 2 AMP

RX Wiring Diagram
Yellow Wire: (common)
Red Wire: (normally open)
Gray Wire: (normally closed)

Quick Connect Pin Assignments
EU/EL or RX only
- If the lock only has EU/EL or RX electric function the function will be wired directly into an 8 pin connector as shown in the image below. The 8 pin connector can be plugged directly into a Hager Quick Connect Harness Cable during installation of the lock.
- Insert excess wire into the raceway prior to installing the lock body.
- See wire color reference charts on page 2 to complete wiring of full door assembly.

2-Conductor Wire Run

<table>
<thead>
<tr>
<th>Distance 12V/24V</th>
<th>Wire Gauge</th>
</tr>
</thead>
<tbody>
<tr>
<td>125'/250'</td>
<td>22</td>
</tr>
<tr>
<td>200'/400'</td>
<td>20</td>
</tr>
<tr>
<td>300'/600'</td>
<td>18</td>
</tr>
<tr>
<td>500'/1000'</td>
<td>16</td>
</tr>
<tr>
<td>750'/1500'</td>
<td>14</td>
</tr>
<tr>
<td>1250'/2500'</td>
<td>12</td>
</tr>
</tbody>
</table>

Note: Warranty is void if electronics module is removed.

Switch Access

Electronics Module
EU/EL and RX
- If the lock has both EU/EL and RX the EU/EL power wires will have an inline connector that is attached to an 8 pin connector and the RX will be connected directly to the 8 pin connector.
- The inline connector must be connected through the 2-1/8" hole in the door to be able to fully install the lock. See image below for reference.
- Insert excess wire into the raceway prior to installing the lock body.
- See wire color reference charts on this page to complete wiring of full door assembly.

WIRE COLOR REFERENCE CHART

8-Pin Housing Wire Positions:
EU/EL: (1) BLUE, (2) BLUE
RX: (3) YELLOW, (4) RED, (5) GRAY
(6), (7), & (8) UNASSIGNED

Selecting Fail-Safe (EL) / Fail Secure (EU)
Move Switch Slider to desired function setting as shown below to select 3480EL (GREEN) or 3480EU (YELLOW). Power must be applied to the unit once after moving the switch to change the lockset's state.

NOTE: The colors indicate which direction to move the switch to select the desired function. They are not position indicators. The switch should be easy to move, so don't force it.

YELLOW: FAIL SECURE (3840EU)
GREEN: FAIL SAFE (3840EL)
INSTRUCTIONS

Door and Frame Preparations

1. Use standard instructions and template to prepare door for lock installation.
2. Door fabricator to provide a 3/4” diameter hole extending 4-3/4” in depth from back edge of 2-1/8” diameter cross bore hole. This provides room for insertion of the electronics module and wires. For cylindrical locks that only have request to exit (part number 3480RX), this section of the raceway shall be 3/8” diameter to match Step 3 shown below.
3. Raceway can then be reduced to 3/8” diameter and continue through door to allow insertion of the electronics module and wires running between lock and electric hinge.
4. Provide mortised 3/4” diameter cutout on inside face of door for wire entry access to raceway.