SAFETY INSTRUCTIONS
This device is limited in its applications. Interface only with components that are equally rated to this device. Failure to observe and adhere to operating limits detailed in these instructions voids its warranty and Adams Rite's responsibility. Care must be taken to ensure no shorts are across power feed wires to power transfer and electric latch retraction exit device.

FUNCTION
This EL feature is available on all 3000/8000 series exit devices and provides for electrical latch retraction of the device from a remote location. The exit device is fail secure. In the event of a power failure the exit device defaults to the locked position. The device is rated for both continuous and intermittent operation.

SOLENOID SPECIFICATIONS
Voltage: 12 VDC Cont. Duty* 24 VDC Cont. Duty*
Current: 1.5 Amps Inrush / Hold 6 Amps Inrush / Hold
Coil Resistance: 8 Ohms.
*The solenoid is rated for both intermittent and continuous operation.

MOUNTING INFORMATION
This device is mounted in the standard manner per the specific exit device installation instructions. Ensure that the device functions mechanically prior to operating electrically.

A 3/8" diameter hole on the door must be drilled at the time of installation for wiring access. Refer to Fig. 2. The wires must be protected from abrasion where they pass through the hole in the door. A rubber grommet (not supplied) is sufficient. Use an Adams Rite 4612 wire transfer, or equivalent, to properly transfer the wires from the frame into the door.

PRODUCT MUST BE INSTALLED ACCORDING TO ALL APPLICABLE BUILDING AND LIFE SAFETY CODES

INSTALLATION HOOKUP
This product is offered in both 12 VDC and 24 VDC. Verify that the power being supplied matches the requirement of each device. Refer to Fig. 1 for recommended circuit hookup. Refer to Fig. 1 for wire size recommendations.

To control the electrical operation a remote switch, momentary or maintained, is needed or normally open dry contacts, within an access control system. Ensure the switch contacts are rated for the power requirements of the solenoid. Operation of the switch will retract the latching mechanism for as long as the switch closure is maintained. Any delay function must be a feature of the control switch.

To protect switch or relay from arcing due to inductive discharge of the solenoid, use a 1N4004 diode or metal oxide varistor (MOV) wired in parallel with the load.

A maximum of two 24 VDC and one 12 VDC electrified devices, can be operated with one 4605 Transformer / 4603 Rectifier combination.

Automatic door operators — When using this device with an automatic door operator utilize the switch (two blue wires) at the back of the solenoid to operate it.

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3700EL/8700EL/8800EL
RIM EXIT DEVICES

ELECTRIC LATCH RETRACTION INSTALLATION INSTRUCTIONS

DATE: 07-18-12
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Rev. J
ECN: 11955C
Adams Rite
www.adamsrite.com
Phone: 800-603-7290
Fax: 800-512-7290
3700EL/8700EL/8800EL
RIM EXIT DEVICES
80-0180-268

MONITOR SWITCH
A single pole single throw monitor switch is added to the solenoid. Indicate when the unit is electrically unlatched. Switch outputs can be used to signal automatic door operators, monitor panels, fire control panels etc.

CONTROL SWITCH (N.O.)(EX. PUSHPUSH BUTTON)(KEYPAD)(CARD READER)MONITOR SWITCH
A SINGLE POLE SINGLE THROW MONITOR SWITCH IS ADDED TO THE SOLENOID. INDICATE WHEN THE UNIT IS ELECTRICALLY UNLATCHED. SWITCH OUTPUTS CAN BE USED TO SIGNAL AUTOMATIC DOOR OPERATORS, MONITOR PANELS, FIRE CONTROL PANELS ETC.
ELECTRIC LATCH RETRACTION TROUBLESHOOTING GUIDE
(RIM DEVICE)
(3700EL / 8700EL / 8800EL)

<table>
<thead>
<tr>
<th>SYMPTOM</th>
<th>POSSIBLE CAUSE</th>
<th>CORRECTIVE ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>INCORRECT VOLTAGE OR NO VOLTAGE PRESENT AT THE EXIT DEVICE</td>
<td>WITH A MULTIMETER MEASURE THE VOLTAGE AT THE DEVICE, WITH DEVICE ENERGIZED. VERIFY THAT VOLTAGE MATCHES THE DEVICE REQUIREMENTS, BOTH VOLTAGE LEVEL (24/12) AND TYPE (DC). CORRECT ANY DISCREPANCIES.</td>
<td>DEVICE IS INOPERATIVE</td>
</tr>
<tr>
<td>FAULTY SWITCH</td>
<td>VERIFY OPERATION OF CONTROL SWITCH. PERFORM A CONTINUITY CHECK TO ENSURE PROPER OPERATION.</td>
<td>FAULTY SWITCH</td>
</tr>
<tr>
<td>FAILED SOLENOID</td>
<td>MEASURE THE RESISTANCE ACROSS THE SOLENOID WIRES. COMPARE WITH THE VALUES ON THE INSTALLATION INSTRUCTIONS. ±5% REPLACE IF NECESSARY</td>
<td>FAILED SOLENOID</td>
</tr>
<tr>
<td>SLUGGISH OPERATION</td>
<td>INCORRECT VOLTAGEVERIFY VOLTAGE BEING SUPPLIED TO THE DEVICE, BOTH VOLTAGE LEVEL (24/12) AND TYPE (DC)</td>
<td>SLUGGISH OPERATION</td>
</tr>
<tr>
<td>DEVICE BUZZES WHEN ENERGIZED</td>
<td>USING AC TO POWER THE DEVICE VOLTAGE MUST BE DC. USE A RECTIFIER TO CONVERT AC TO DC.</td>
<td>DEVICE BUZZES WHEN ENERGIZED</td>
</tr>
<tr>
<td>WIRE SIZE TO SMALL, OR WIRE RUN TO LONG.</td>
<td>SEE FIG. 3 OF INSTALLATION INSTRUCTIONS FOR PROPER WIRE SIZING.</td>
<td>WIRE SIZE TO SMALL, OR WIRE RUN TO LONG.</td>
</tr>
<tr>
<td>BINDING BETWEEN LATCH AND STRIKE</td>
<td>TRY TO ELECTRICALLY OPERATE THE DEVICE WITH THE DOOR IN THE OPEN POSITION. IF THE DEVICE OPERATES, MAKE THE NECESSARY STRIKE ADJUSTMENT TO RELIEVE THE BACK PRESSURE ON THE BOLT (S).</td>
<td>BINDING BETWEEN LATCH AND STRIKE</td>
</tr>
<tr>
<td>MAINTAINED SWITCH IS BEING USED AND IS IN THE CLOSED POSITION</td>
<td>OPEN SWITCH TO RELEASE THE EXIT DEVICE</td>
<td>MAINTAINED SWITCH IS BEING USED AND IS IN THE CLOSED POSITION</td>
</tr>
<tr>
<td>DEFECTIVE CONTROL SWITCH</td>
<td>REPLACE IF NECESSARY</td>
<td>DEFECTIVE CONTROL SWITCH</td>
</tr>
</tbody>
</table>

AVAILABLE REPLACEMENT PARTS

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>PART NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SOLENOID ASSY, 12 VDC</td>
<td>31-0735</td>
</tr>
<tr>
<td>2</td>
<td>SOLENOID ASSY, 24 VDC</td>
<td>31-0736</td>
</tr>
<tr>
<td>3</td>
<td>#8-32 X 5/16 FLAT HEAD SCREW</td>
<td>S245-08-05NP</td>
</tr>
<tr>
<td>4</td>
<td>HEX HEAD SHOULDER SCREW</td>
<td>26-0430</td>
</tr>
<tr>
<td>5</td>
<td>NYLON CLAMP TIE</td>
<td>29-0123P</td>
</tr>
<tr>
<td>6</td>
<td>#8 X 1/2 PAN HEAD SELF TAPPING SCREW</td>
<td>S282-06R08-630P</td>
</tr>
<tr>
<td>7</td>
<td>FLAT WASHER</td>
<td>W400-06</td>
</tr>
</tbody>
</table>

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