OVERVIEW

The 3101B-ES and 3101B-R Delayed Egress Controllers are the “electronics only” portion of the 3101B maglock. Common applications include outdoor gate locks or inswing doors which require delay egress functionality. Controllers require other components (not included) for a fully functional delay egress opening to function. See page 4 for more information.

Both models are identical except for the enclosure style:
• 3101B-ES is in a standard 15”x12”x4” steel enclosure
• 3101B-R is in a 12”x12”x6” weatherproof enclosure with built-in alarm horn

DESCRIPTION OF OPERATION

The door is normally closed and secured by the fail-safe electronic lock. Attempting to exit by actuating the delay egress trigger device (moving the door if using door contact, pushing the exit sensor bar, etc.) for the duration of the nuisance delay time (selectable 1 or 3 seconds) will activate the delay egress sequencer. The remote audible (built-in on 3101B-R) will then pulsate for 15 seconds* (1 second rate) and the bi-color LED on the center of the circuit board will blink red. After 15 seconds* the lock will release, with the audible changing to a continuous tone, and the bi-color LED turns green. The unit will stay in alarm, and the door unlocked, until the door is shut and the controller is reset by way of the remote reset input (typically connected to a keyswitch) or remote bypass input (only after 15 seconds* has elapsed). Delay egress monitor output relay is provided to monitor the status (state change upon initiation of 15 second* countdown, after the nuisance delay time). Remote bypass input (terminals 9&10) allows opening the door for adjustable 0-90 seconds without an alarm (using a keyswitch, keypad, card reader, etc.) featuring anti-tailgating which allows immediate door relock as soon as door shuts (requires the connection of a door contact).

*30 seconds if selected
NOTE: The controller accepts 12 or 24 VAC/VDC. Be sure to set the controller’s voltage jumpers (page 3) to match what is connected to POWER INPUT. No selection is required for AC/DC. This will also determine the LOCK OUTPUT voltage (always DC out). Controller uses approx. 100mA.

NOTE: DO NOT APPLY VOLTAGE TO TERMINALS 3-12

NOTE: There are multiple ways to connect a remote LED - (1) connect to LOCK COIL, LED will be on when lock is on and off when lock is off (2) connect using the DELAY EGRESS ALARM MONITOR contacts, LED will be red or green depending on state of controller (3) wire directly to maglock’s Dynastat bond sensor - part of HSM option - to give true indication of lock secure/unsecure.

Note: DPS (door position switch) is only necessary for anti-tailgating feature. Place a wire jumper between DPS Common and DPS Normally Closed if not using (jumper installed at factory).
**CIRCUIT BOARD SETTINGS**

### V - Voltage Selection

Check that the voltage selection jumper (J4) is properly set to match your input power. Note that all units are factory set for 24 volts. This will also determine the LOCK OUTPUT voltage (DC out only).

### FA - Fire Alarm Control

Check that the fire alarm control jumper (J9) is properly set to match your fire panel input contacts. If fire panel tie-in is not required leave jumper at factory setting (N.O.).

### S - Remote Bypass Relock Time

A contact closure on remote bypass (terminals 9 & 10 on circuit board) will immediately release the lock without alarm. The door will remain unlocked for a period of time controlled by S2. To increase the delay, rotate S2 clockwise. Range is 1 to 75 seconds (~5 sec. per click).

### C - System Selector Switches

The selector switches (DS1) that control major system functions are factory set to the OFF position for basic lock operation.

<table>
<thead>
<tr>
<th>SWITCH</th>
<th>FUNCTION</th>
<th>MODE SETTINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>NOT USED</td>
<td>NORMAL</td>
</tr>
<tr>
<td>2</td>
<td>BYPASS AUDIBLE</td>
<td>DISABLED</td>
</tr>
<tr>
<td>3</td>
<td>NUISANCE DELAY</td>
<td>1 SEC., 3 SEC.</td>
</tr>
<tr>
<td>4</td>
<td>EGRESS DELAY</td>
<td>15 SEC., 30 SEC.</td>
</tr>
</tbody>
</table>
INDICATOR & AUDIBLE DESCRIPTIONS

LED1 - BI-COLOR LED INDICATOR
(Located at center of circuit board.)
Indicates lock and alarm status.

LED2 - WATCHDOG LED INDICATOR
(Located upper right corner of circuit board.)
Troubleshooting indicator - monitors proper operation of the microprocessor.

<table>
<thead>
<tr>
<th>CONDITION</th>
<th>AUDIBLE SIGNAL</th>
<th>LOCK</th>
<th>LED 1</th>
<th>LED 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>DELAY EGRESS ALARM</td>
<td>One second pulse rate during delay cycle.</td>
<td>ON</td>
<td>BLINK RED</td>
<td>RED</td>
</tr>
<tr>
<td>DELAY EGRESS ALARM</td>
<td>Steady tone after delay until reset.</td>
<td>OFF</td>
<td>GREEN</td>
<td>RED</td>
</tr>
<tr>
<td>FIRE ALARM RELEASE</td>
<td>Steady tone until fire alarm contacts are reset.</td>
<td>OFF</td>
<td>GREEN</td>
<td>RED</td>
</tr>
<tr>
<td>OPTIONAL REMOTE AUTHORIZED BYPASS (TERMINALS 9&amp;10 ON CIRCUIT BOARD)</td>
<td>None, unless bypass audible is enabled (dip switch 2). If door is held open past relock time, unit goes into delay egress alarm &amp; requires reset.</td>
<td>OFF</td>
<td>GREEN</td>
<td>RED</td>
</tr>
<tr>
<td>FACTORY SERVICE REQUIRED</td>
<td>Steady tone.</td>
<td>N/A</td>
<td>N/A</td>
<td>BLINK RED OR OFF</td>
</tr>
</tbody>
</table>

TYPICAL SYSTEM INSTALLATION
(additional components not included)

1. Fail-safe electronic lock - e.g. DynaLock 3000xHSM or 2011xHSM maglock, DynaLock 1614S electric strike, electrified lockset (by others)
2. Delay egress trigger device - e.g. DynaLock 6451 exit sensor bar, DynaLock 6172 or 6231 pushbutton, door position switch (in conjunction with 3101B “spring style” armature - consult factory for part number)
3. Bypass/reset control and/or annunciator - e.g. DynaLock 6370 control & monitor station
4. Door position switch - for anti-tailgating feature (integrated with maglock models having HSM option)
5. 12/24 VDC/VAC power source, to match power requirements of the electronic lock - e.g. DynaLock 5025, 5500, 5600
6. ‘15 second’ door sign included, ‘30 second’ sign available - specify when ordering

FOR PRODUCT SUPPORT AND PARTS ORDERING INFORMATION CONTACT:
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