INSTALLATION INSTRUCTIONS
DEGR7700 DELAYED EGRESS ALL IN ONE DEVICE

- Stop Employee Theft
- Stop Retail Shoplifting
- Restrict Airport Patrons
- Restrict Wandering Patients

The sign provides comprehensive and clear instructions of the door operation for persons without prior knowledge of the exit delay, including the sight and hearing impaired.

Application:
When unauthorized egress is initiated by depressing the push pad of the DEGR7700, an alarm will sound and an irreversible unlock delay period of 15 (optional 30) seconds will begin. Meanwhile, the person exiting must wait to egress giving personnel or security time to respond. After the delay period has expired, the device unlocks permitting egress until the device is reset. In an emergency, device will unlock immediately upon loss of power or when powered by a fire control supervised power supply. The included signage provides clear and comprehensive instructions of door operation allowing egress for all without prior knowledge of operation.

Features:

Egress Delay
- 15 second exit delay
- 1 or 2 second nuisance delay

Control Inputs
- 1 to 30 second request-to-exit and bypass input with anti-tailgate and door prop alarm.
- Bypass
- Reset
- Remote Trigger
- DPS (for Door Prop and Anti-Tailgate)

Trigger Modes
- Egress alarm triggered by Push Bar
- Trigger input from external device
- Door opened in secure mode (Door Prop)

Built-In Annunciation
- Armed mode
- Nuisance mode
- Irreversible egress mode
- Release mode

Monitoring Outputs
- Armed mode
- Egress initiation status
- Released status

Code Compliance
- IFC International fire Code
- IBC International Building Code
- NFPA 1 Uniform Fire Code
- California Building Code
- Field selectable automatic or manual power up after emergency release or power loss. Use of manual power up complies with California Building Code (OSHPD) requirements.
**RIM DEVICE**

AC Mains \(\rightarrow\) 602RF Power Supply \(\rightarrow\) FACP

3 conductors

2 conductors

2 to 10 Conductors

DPS (Optional)

**SURFACE VERTICAL ROD DEVICE**

AC Mains \(\rightarrow\) 631RF Power Supply \(\rightarrow\) FACP

3 conductors

2 conductors

2 to 10 conductors

DPS (Optional)

**Board Layout** (LR Device shown)

- J6 = GRN RELAY (Active when device is secure)
- J7 = RED RELAY (Active upon alarm initiation)

**MONITOR RELAY JUMPER SETTINGS**

*Individually sets the polarity of the GRN & RED relays when the relay is in an ACTIVE state.

- 2 Left Pins = N/O
- 2 Right Pins = N/C

**DIP SWITCH SETTINGS**

- PWR UP STATE: **UNLOCKED** - **LOCKED**
- NUISANCE DELAY: 1s - 2s
- REX PERIOD: 15s - 20s - 30s - 1s

**WARNING!**

CONTACT THE AUTHORITY HAVING JURISDICTION FOR APPROVAL PRIOR TO SELECTING NUISANCE TIME OR PWR-UP SETTINGS.
**Device Wiring Pigtail**

- **OR** = Slave Out
- **VI** = Remote Trigger
- **GRN** = Green Relay
- **YEL** = Relay Common
- **GRY** = DPS
- **BLU** = Reset / REX
- **RED** = Power In (+)
- **BLK** = Power In (-)

1. **These wires shall be connected to an accessory in the protected area, unused wires should be capped off.**

2. **This product must be powered by 600 series power supply:**
   - Single Door – 602RF 1 AMP
   - Double Door – 631RF 1.5 AMP

3. **A door contact is required for anti-tailgate and door prop functions.**

**Wire Color** | **Wire Designation** | **Description**
--- | --- | ---
Orange | Slave Out | Used for a pair of doors (master & slave). This is a voltage output (24VDC @250mA). Connect this wire to +24VDC (Red wire) of the slave bar. See "Typical Wiring for Single or Double Door Installation".

Violet | Remote Trigger | Used for a pair of doors (master & slave). This is a dry input. Connect this wire to one leg of the Slave Trigger output. The other leg of the Slave Trigger output is connected to ground (-VDC). Closing the switch shorts this wire to ground and initiates the alarm sequence. See "Typical Wiring for Single or Double Door Installation". The two white wires on the slave bar are the Normally Open trigger switch.

Brown | Red Relay | This is the Alarm Relay Output (Dry, 1A@12/24VDC). It is normally INACTIVE when the door is secure. It changes state when the bar is pressed beyond the nuisance delay and placed into an Alarm state. It may be configured as Normally Open OR Normally Closed using Jumper J7. The YELLOW wire is the relay common.

Green | Green Relay | This is the Door Secure Relay Output (Dry, 1A@12/24VDC). It is normally ACTIVE when the door is secure. It changes state when the bar unlocks after (a) the delayed egress countdown expires, (b) an authorized Request-to-Exit(REX) signal, or (c) the bar is Bypassed. It may be configured as Normally Open OR Normally Closed using Jumper J6. The YELLOW wire is the relay common.

Yellow | Relay Common | This is the shared relay common for both the Red & Green Relay.

Grey | Door Position Switch (DPS) | This is a dry input. Connect this wire to one leg of a Door Contact switch. The other leg of the Door Contact switch is connected to ground (-VDC). The Door Contact polarity must be OPEN when the door is closed. A door contact is required for anti-tailgate and door prop alarm functions.

Blue | Reset/REX | This is a momentary, dry input. Connect this wire to one leg of a Normally Open switch. The other leg of the Normally Open switch is connected to ground (-VDC). When the bar is in a secure state, shorting this input will result in an authorized unlock (REX). The REX period is configured by the dip switch settings.

When the bar is in an alarm, authorized unlock state, or in a bypassed state, shorting this input will reset (secure) the bar.

White | Bypass | This is a momentary, dry input. Connect this wire to one leg of a Normally Open switch. The other leg of the Normally Open switch is connected to ground (-VDC). When the bar is in a secure state, shorting this input will unlock the device indefinitely, until the bar is Reset.

Red | Power IN (+) 24VDC | Input Voltage: 24VDC +/- 10%; Input Current: 540mA (max). The Red & Black wires are the minimum required connections for a single door application.

Black | Power IN (-) 24VDC |
TYPICAL WIRING FOR SINGLE OR DOUBLE DOOR INSTALLATION

**Door Contact connection is optional, but required for anti-tailgate and door prop alarms.**

**Door Contact (Master)**

**Door Contact (Slave)**

NOTE: Red & Blk pigtail wires are the minimum required connections for a single door application.

Installation Note: Cap any unused leads.

KEY CYLINDER INSTALLATION & OPERATION

INSTALL CYLINDER LOCK (NOT SUPPLIED) INTO DEVICE COVER AS SHOWN ON PAGE 6.

Key cylinder is in the normal, center position. LED is solid green when the device is secure.

To bypass the device for an extended period of time, momentarily turn the key cylinder towards “Bypass” and return to the center position. LED will flash slowly.

When the device is in a secure state, momentarily turning the key cylinder towards “Reset” will result in a timed authorized unlock (REX).

When the device is in an alarm, authorized unlock, or bypassed state, momentarily turning the key cylinder towards “Reset” will re-secure the device.
**Door Contact connection is optional, but required for anti-tailgate and door prop alarms.**

**STATUS LED INDICATIONS**

<table>
<thead>
<tr>
<th>Status</th>
<th>Device Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>No Power</td>
</tr>
<tr>
<td>GREEN (Solid)</td>
<td>Secure</td>
</tr>
<tr>
<td>YELLOW</td>
<td>Irreversible Delay in Progress</td>
</tr>
<tr>
<td>RED (Solid)</td>
<td>Alarmed &amp; Unlocked</td>
</tr>
<tr>
<td>GREEN (Slow Flash)</td>
<td>Bypassed</td>
</tr>
<tr>
<td>GREEN (Fast Flash)</td>
<td>Authorized Unlock (REX)</td>
</tr>
<tr>
<td>RED (Fast Flash)</td>
<td>Alarmed, Unlocked, &amp; Door Opened</td>
</tr>
</tbody>
</table>
Use the supplied Clover Tailpiece or equivalent.

1 Install Key Cylinder as shown and secure with locking nut provided.

2 Remove and position Tailpiece as shown.

3 Insert Key and check for proper operation.