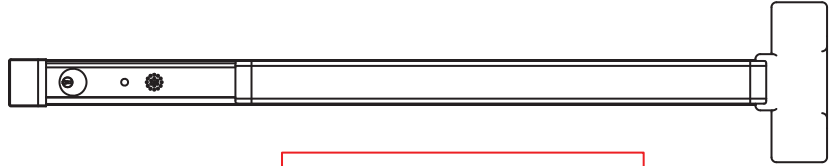


INSTALLATION INSTRUCTIONS

DEGR7700 DELAYED EGRESS ALL IN ONE DEVICE

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



**PUSH UNTIL ALARM
SOUNDS. DOOR CAN BE
OPENED IN 15 SECONDS.**

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)

Code Compliance

- IFC International fire Code
- IBC International Building Code
- NFPA 101 Life Safety 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.

Built-In Annunciation

- Armed mode
- Nuisance mode
- Irreversible egress mode
- Release mode

Monitoring Outputs

- Armed mode
- Egress initiation status
- Released status

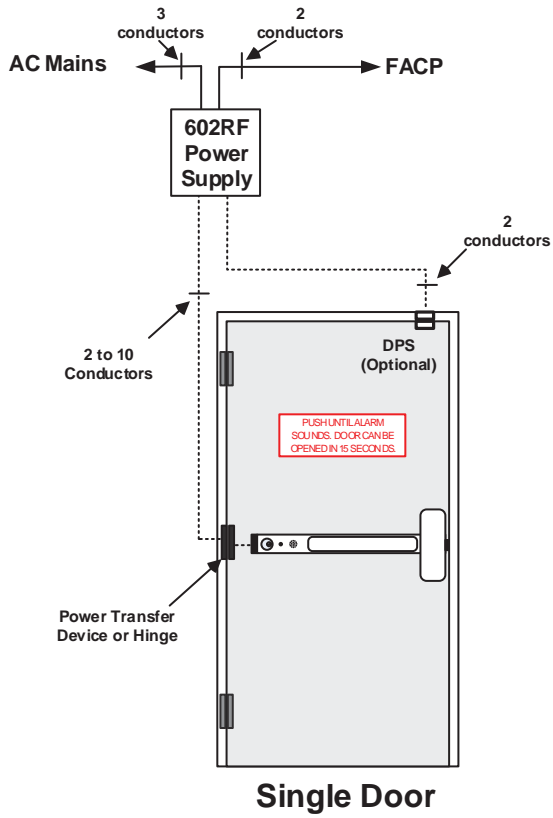
SECURITY



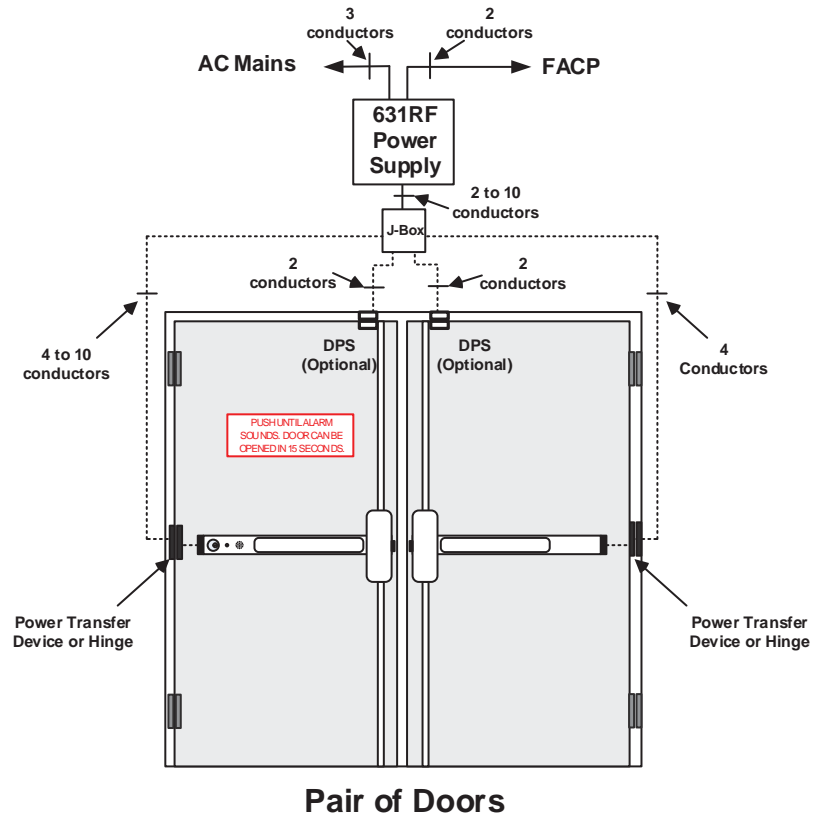
LISTED

FWAX
SPECIAL LOCKING
ARRANGEMENTS
4UT9

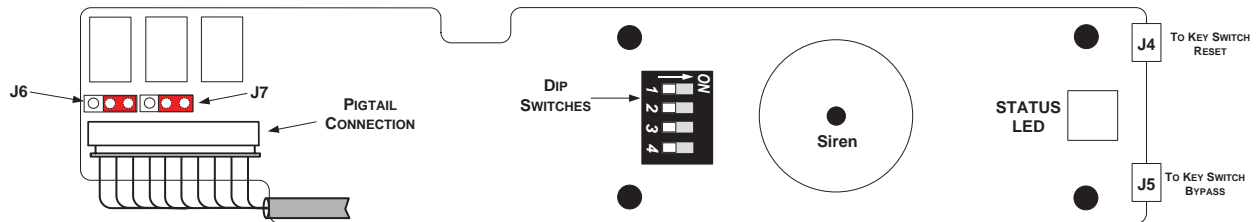
RIM DEVICE



SURFACE VERTICAL ROD DEVICE



Board Layout (LR Device shown)



MONITOR RELAY JUMPER SETTINGS*

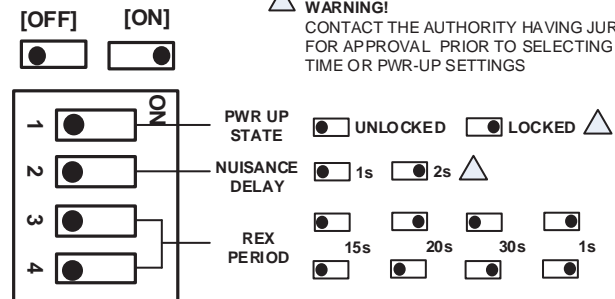
*Individually sets the polarity of the GRN & RED relays when the relay is in an ACTIVE state.



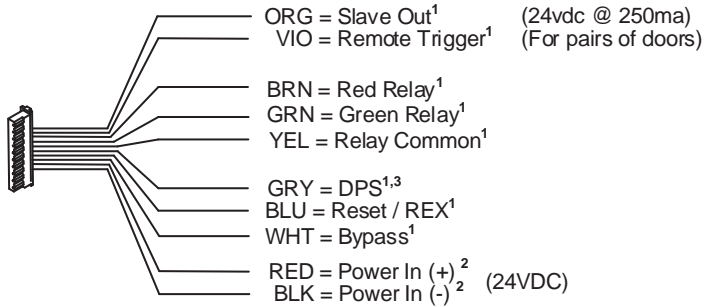
J6 = GRN RELAY (Active when device is secure)
J7 = RED RELAY (Active upon alarm initiation)

DIP SWITCH SETTINGS

WARNING!
CONTACT THE AUTHORITY HAVING JURISDICTION FOR APPROVAL PRIOR TO SELECTING NUISANCE TIME OR PWR-UP SETTINGS



Device Wiring Pigtail



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.

Electrical Specifications:

Input Voltage : 24VDC +/- 10%

Input Current : 540ma Max

Monitor Relays: 1 Amp contacts @12/24vdc

Slave Output : 24VDC @250ma

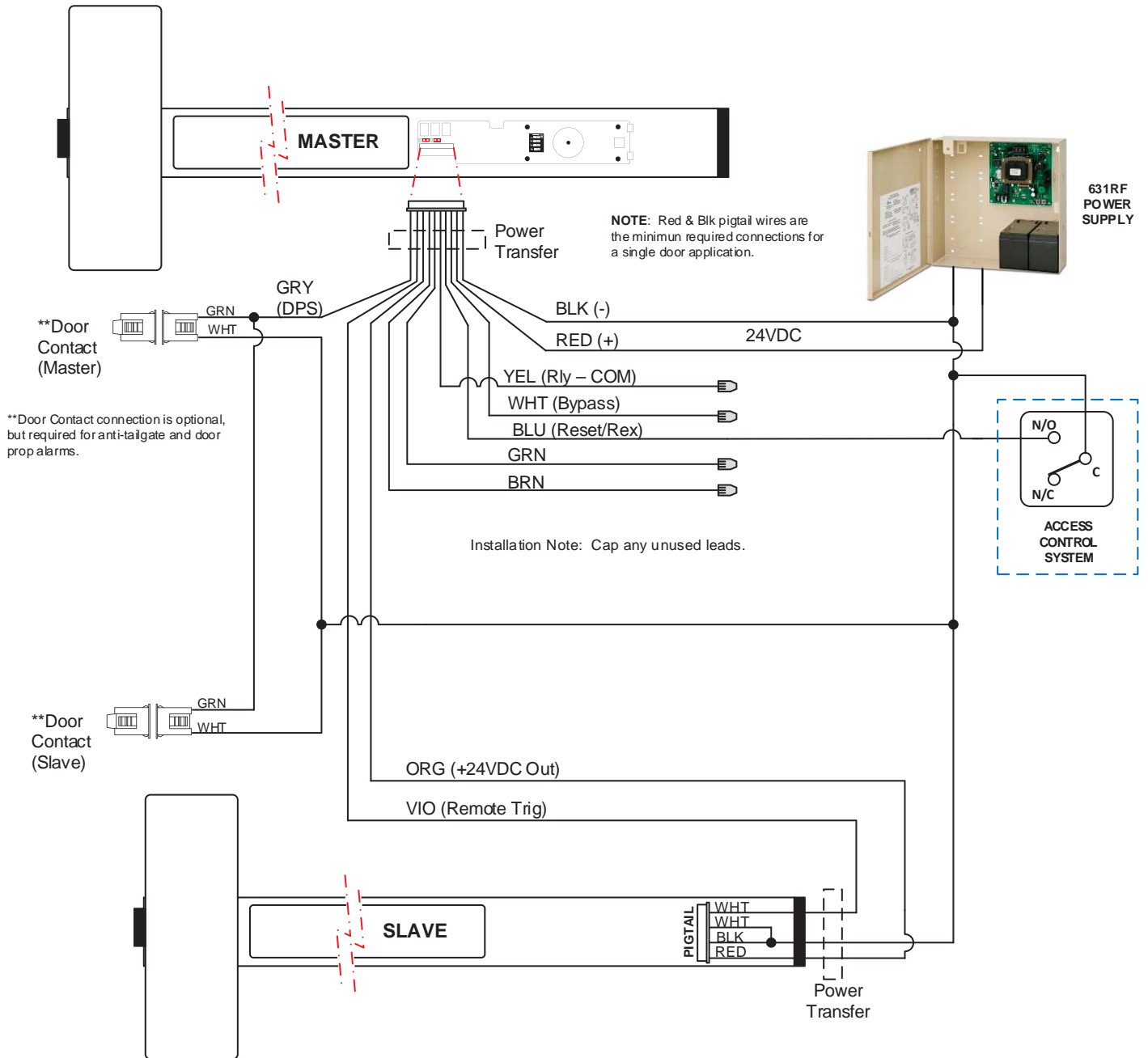
Environmental:

Max Operating Temperature: 0°C to 70°C

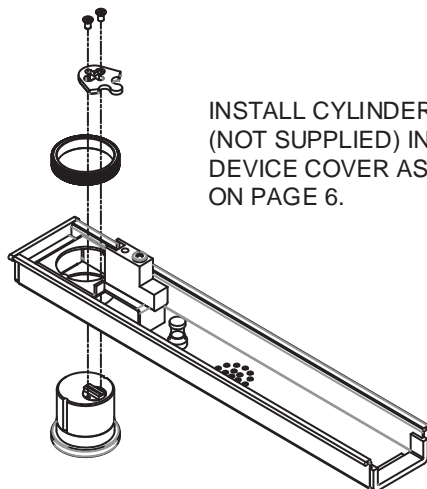
Tested to 85% RH @30°C

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



KEY CYLINDER INSTALLATION & OPERATION



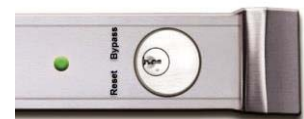
INSTALL CYLINDER LOCK (NOT SUPPLIED) INTO DEVICE COVER AS SHOWN ON PAGE 6.

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.



TYPICAL WIRING FOR SINGLE DOOR WITH ELECTRIC TRIM

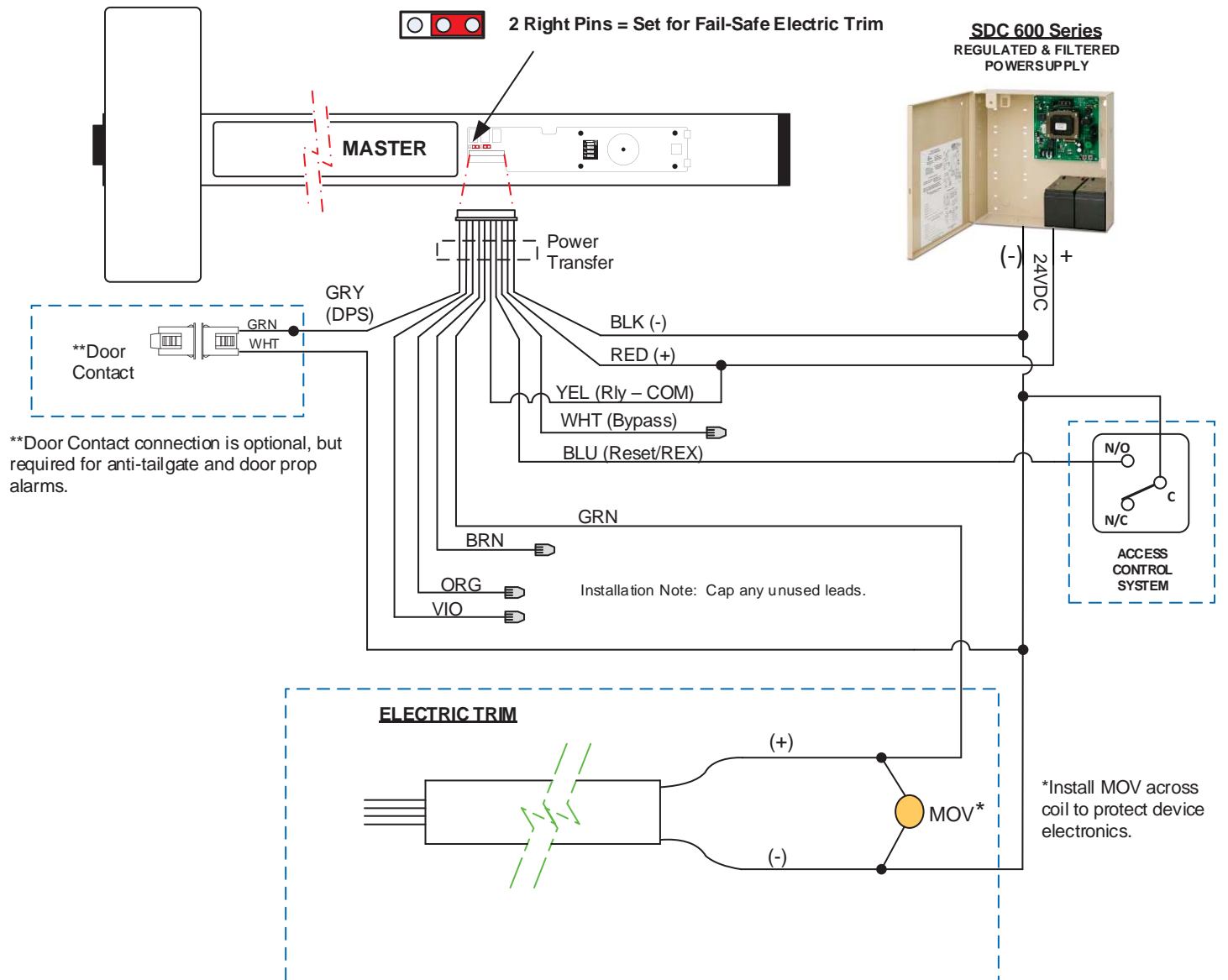
J6 = GRN RELAY (Active when device is secure)



2 Left Pins = Set for Fail-Secure Electric Trim



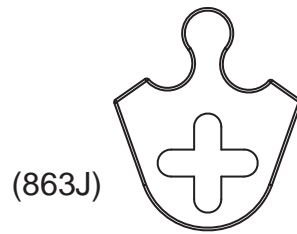
2 Right Pins = Set for Fail-Safe Electric Trim



STATUS LED INDICATIONS

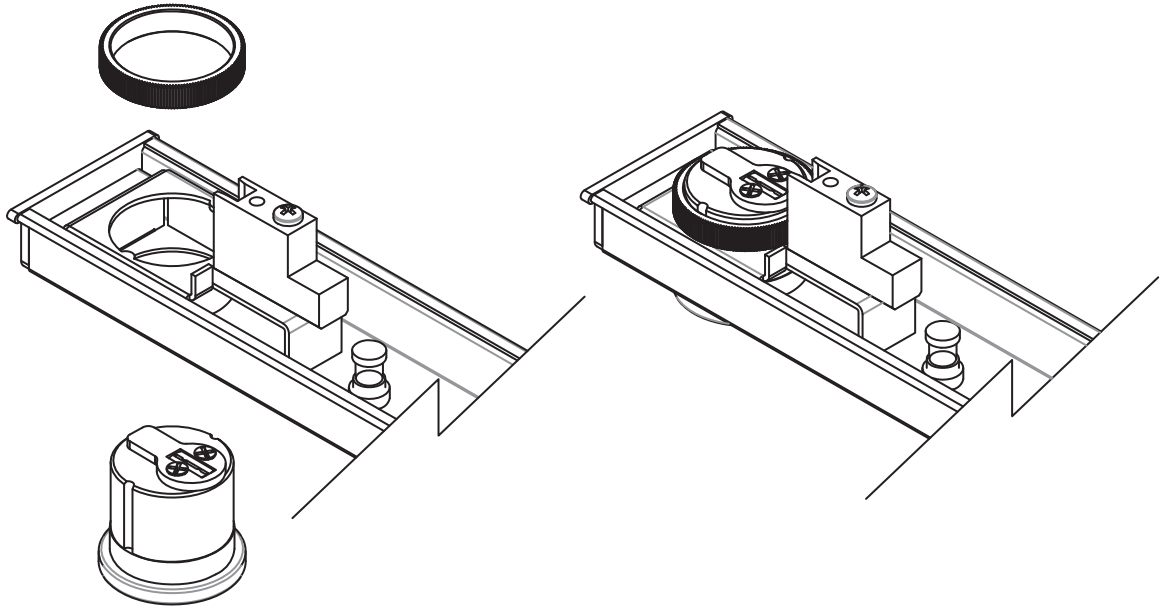
Status	Device Mode
OFF	No Power
GREEN (Solid)	Secure
YELLOW	Irreversible Delay in Progress
RED (Solid)	Alarmed & Unlocked
GREEN (Slow Flash)	Bypassed
GREEN (Fast Flash)	Authorized Unlock (REX)
RED (Fast Flash)	Alarmed, Unlocked, & Door Opened

Use the supplied Clover Tailpiece or equivalent.

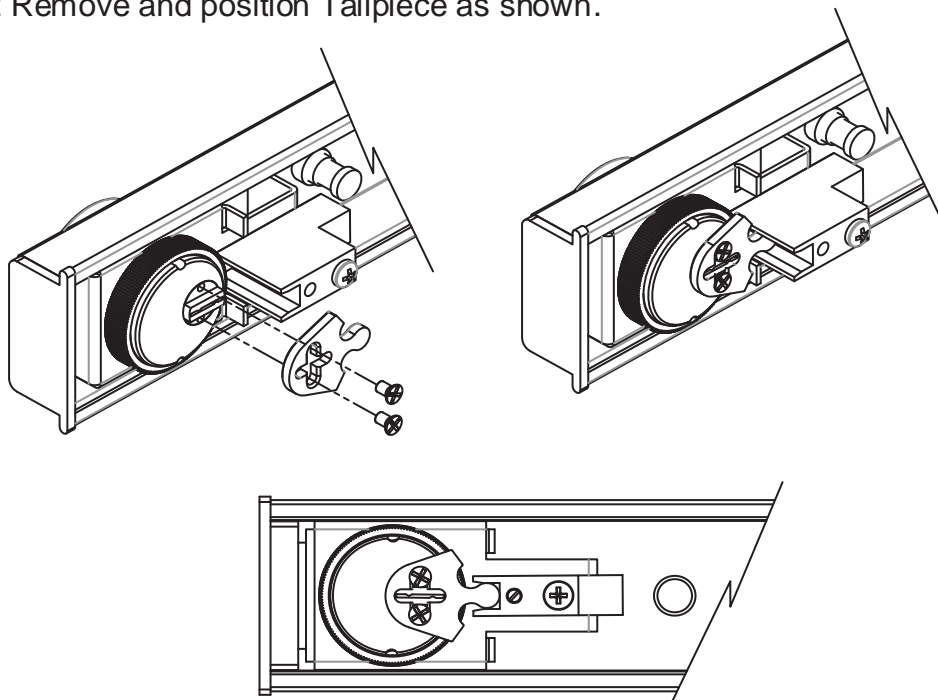


ILCO equivalent tail pieces:
863D
863S

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.