

## DELAYED EGRESS



### Delayed Egress

The Delayed Egress (DE) Exit Device provides a controlled egress for openings which require Panic or Fire Exit Hardware for safe egress. It is a self contained exit device, which when armed will deny exit to unauthorized personnel for 15 or 30 seconds, while simultaneously sounding a local or remote audible alarm. The Remote Monitoring feature will alert the security personnel that an attempt is being made to exit the opening. After the 15 (or 30) second delay of egress period the device will function as a standard exit device for safe egress.

**OPERATION** – The device secures the door in the locked mode with the Red LED indicating locked status. Depressing the Touchbar by accident or for less than the Nuisance Delay Time will sound the alarm without initiating the alarm sequence. Depressing the Touchbar with less than 15 pounds pressure, for longer than the Nuisance Delay Time will initiate an irreversible local audible beeping tone and a visual Red indicator until the device releases. After the delay egress time the lock releases and the alarm changes to a steady tone which continues to alarm until Reset. The remote monitoring contact output can be used to alert security personnel. The person depressing the Touchbar is denied egress (for 15 or 30 seconds) and security personnel are alerted for quick response.

**TRIM** – All standard device trims and functions are available, including “03” function, Trim Lock/Unlock will function normally even when the delayed egress feature is armed. The Device will only be affected when the Touchbar is depressed from the inside. All (DE) Rim and Mortise Devices are also available with Electric Lock/Unlock for the outside Trim. For details see page 28.

Available for all Apex Series Exit Devices.

The Delayed Egress Devices are manufactured and tested to exceed ANSI 156.3 and 156.24. Devices are UL Listed as a Controlled Exit Device (FULA) and Special Locking Arrangements (FWAX) category. Meets all requirements of NFPA 101.

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### FEATURES

**FIRE ALARM CONTACTS** – Fire Alarm input at any time will cut power to the delayed egress function and provide immediate egress.

**ARMED-MOMENTARY EGRESS** – Turning the key clockwise allows authorized personnel to exit without alarming. At the end of the field selectable time period (10, 20 or 30 seconds), the device will relock and rearm.

**DE-DEVICE NETWORKING FEATURE** – This feature allows a Delayed Egress device to arm, alarm, reset and disarm all devices on the same circuit. Each device will continue to operate independently for Momentary Egress.

**30 SECOND DELAY** – A 30 second delay option is available. A written approval from the authority having jurisdiction is required. Note: A “30 Second” decal is provided when the 30 Second Delay option is specified.

**NUISANCE DELAY TIME** – A Nuisance Delay Time helps avoid inadvertent activation. The alarm will sound when the touchbar is pressed, but the alarm sequence will not start unless the touchbar is held in for more than the Nuisance Delay Time. Delay Time is field selectable for 0, 1, 2 or 3 seconds.

### INTEGRAL KEY SWITCH

**Arm** – The Key switch provides the means to locally arm the (DE) device.

**Momentary Egress** – The Key switch will provide temporary disarming to allow for momentary egress (10, 20 or 30 seconds) when the device is in the armed state. The Key switch will Disarm the device and it will function as a standard exit device.

**Reset** – During alarm sequence the device can be rearmed by the Key Switch.

Requires the use of a 1-1/4 mortise cylinder, not furnished standard. Specify when required.

**LED STATUS INDICATOR** (in the device) - A color coded LED indicates Arm, Disarm and Alarm status.

- Flashing Green – Arming
- Flashing Red – Armed
- Green – Unarmed
- Red – Alarmed
- Off – No Power to Device (Normal Exit)

**INTERNAL ALARM** – The device has a 85 db horn which will sound until the device is reset.

**EXTERNAL ALARM** – A set of relay contacts rated at (1 amp, 24VDC) are provided for activating external local or remote audible/visual signaling devices.

### EXTERNAL INHIBIT

**Arm/Rearm** – Accepts a contact to Arm/Rearm the device.

**Momentary Egress** – Accepts a contact to provide temporary disarming to allow for momentary egress when the device is in the armed state. The Momentary Egress will be engaged as long as the switch closure is maintained.

**Reset** – Accepts a contact to reset the device during alarm.

## DELAYED EGRESS (continued)

### DELAYED EGRESS FEATURES: (Continued)

**DOOR POSITION SWITCH** – used in conjunction with the Delayed Egress Exit Device, the following security features are added: The Exit Device Alarm will sound if the door is not closed when the device is armed. The Alarm will sound if the door is forced open when the device is armed. While the device is in the arming stage you may exit the opening. When the door closes the arm/rearm time is cut short and the device is armed preventing unauthorized tailgating through the opening.

The PS161-6 Power Supply is designed as a power source for a variety of applications including Electric Locking, Exit Alarm and Delayed Egress Exit Devices.

The Power Supply is a 120V input with a 12 or 24V output rated at 6A. It can control up to 4 delayed egress exit devices. **Note:** Adding additional loads to the PS161-6 Power Supply (i.e., Card readers, Horns, etc.) may reduce the quantity of Delay Egress Exit Devices controlled by the power supply.

### SPECIFICATIONS

#### Input

- Voltage: 120V AC, 60HZ
- Current: 3.5A AC
- Input fuse ratings: 5A/250V
- AC input is protected via an automatic reset circuit breaker
- Battery fuse ratings: 7.5A/32V

#### Output

- Voltage: 12 or 24V
- Total output: 6 amps
- Power limit/output: 2 amps/per channel
- Outputs: 8 (For Delayed Egress applications: use only 4)
- Ripple voltage: 910mV (Filtered and regulated outputs)
- Protection: Thermal and short circuit protection with auto reset overload protection.

#### Battery Backup Charger

- Built-in charger for sealed lead acid or gel type batteries (batteries not included)
- Maximum charge current: 1.54A
- Automatic switch over to stand-by is instantaneous with no interruption

#### Additional Features

- Short circuit and overload protection.
- Supervised Fire Alarm disconnect (latching or non-latching) on a normally open (NO) or normally closed (NC) trigger.

The (DE) devices are furnished with a decal which states:



**Note:** A “30 Second” decal is provided when the 30 Second Delay option is specified.

### DE ELECTRICAL SPECIFICATIONS

**Voltage:** 24VDC

**Current Disarmed:** 100 mAmps

**Current Armed:** 3.2 Amps for 200 ms, 200 mAmps steady state

**DOOR WIDTHS** Available for 3'-0" and 4'-0" openings. For openings 3'-1" and greater, please specify door width requirements.

**Note:** Not available for openings less than 3'-0"

**To Order:** specify prefix “DE” (e.g. DEFL2108)

## PS161-6 Power Supply

Required for Delayed Egress Devices



PS161-6 Power Supply

- AC fail supervision (form “C” contacts).
- Unit is complete with power supply, enclosure, battery leads, and lock.
- LED indicators for AC Input, DC output, and battery backup status.

#### Enclosure Dimensions

- 12.5" x 13" x 3.25" (318mm x 330.2mm x 82.55mm)

**To Order:** specify PS161-6 power supply

## WIRE CHART AND OHMS LAW

### Minimum Wire Gauge for 24 volts AC or DC

AMPS	DISTANCE IN FEET FROM POWER SOURCE TO FARTHEST LOCKING DEVICE				
	25	50	75	100	150
6.00	18	16	16	14	12