

6300/6400 Series



DE - Delayed Egress

Overview:

This Delayed Egress exit device is designed to slow the egress or exit from a particular area, usually for security reasons or to prevent unauthorized access.

Delayed egress devices are commonly used where enhanced security measures are needed. Examples include hospitals, schools, airports, or shopping centers. These devices are designed to meet safety regulations and building codes. Local regulations and building codes may govern the specific requirements for the installation and usage of these devices.

Device Function Overview:

- Armed: When armed, this device activates an internal blocking mechanism to prevent exiting the door from the inside until the proper release sequence has been completed.
- Release Delay: When an attempt is made to open the door from the inside, the device sounds an alarm and initiates a countdown.
- Free Exit: Upon completion of the Release Delay countdown, the device will release the push bar and allow free exit from the door until it is reset. An alarm will continue to sound until the device is reset.
- Fire Contacts: The power supply for this device must be connected to a fire alarm to cut power to the device, allowing immediate egress in the event of an emergency

IMPORTANT

Local regulations and building codes may dictate specific requirements for the installation and usage of these devices.

Electrical Specifications:

24VDC +/-10%, 1A average inrush, 250mA continuous

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DEFINITIONS

Fire Alarm – Power Supply

Usage: Required by Code

Power supply must be wired to cut power to the DE device on activation of fire alarm. The example wiring diagram in the manual shows how device should be wired if using our PS220 power supply. A UL 294 rated power supply providing a minimum of 1 Amp at 24VDC (+/-10%) with fire alarm link is required.

Inhibit Contact

Usage: Optional

Type: Normally Open

Contact closure allows free egress/ingress without sounding the alarm. After Inhibit completes, the system resets automatically when contact position conditions are satisfied (door position switch and optional latch monitor switch). Inhibit is usually wired to an access control system to allow entry from the outside or exit from the inside without alarming the device. When not used for Inhibit, this input can be used to reset a device in alarm.

Door Position Switch (DPS)

Usage: Preferred

Type: Normally Closed

The Door Position Switch input senses door opening. If the door has been opened without using the Inhibit feature, the internal alarm will sound. The DPS contact must be closed to arm the device including after inhibit has been used. If not used, bypass DPS by closing circuit.

Relay Contacts

Usage: Optional

Type: SPDT

Opens or closes contact upon system arming. Can be used to signal security system when device is armed. Relay contacts will change state when device alarms and during Inhibit.

Nuisance Delay

Configurable: Immediate, 1 second

The Nuisance Delay starts from the first moment the push bar is pressed. If set to Immediate, the device will immediately begin the Release Delay. If set to 1 second, the device will sound a beep when pressed. If the device is released before 1 second it will return to the previous, armed state. If held for longer than 1 second the device will proceed to the Release Delay. This is useful in public areas where the device may be accidentally activated.

Release Delay

Configurable: 15 seconds, 30 seconds

When the Release Delay is initiated, the push bar will remain locked and a warning beep will sound for the configured number of seconds (less any time already occupied by the Nuisance Delay). Once started, the Release Delay sequence cannot be stopped and the device will allow egress after the configured time has passed.

Rearm Delay

Configurable: Immediate, 1 second, 5 seconds, 15 seconds

The time the device waits to arm following arming with the Key Switch or Inhibit Input. The device will arm when door closes (and DPS is satisfied) and the rearm delay has completed. Rearm delay can also be set to 15 seconds to allow door to close after Inhibit when DPS is not used.

INTERFACE

Key Switch

- The Key Switch Arms or Disarms the device.
- Turning the Key Switch counter-clockwise arms the device (following the Rearm Delay)
- Turning the Key Switch clockwise Disarms the device immediately

Status Indicator LED

- Armed – Solid Red LED
- Disarmed / Alarmed – Red LED is off
- Inhibit Active – Red LED is off

Internal Alarm

- Nuisance Delay Active – Short continuous beep
- Release Delay Initiated – Long continuous beep
- Alarming – Pulsing Beep