# 9000DE Series

Delayed Egress Exit Device

## **Installation instructions**

95011817 - 01-2020

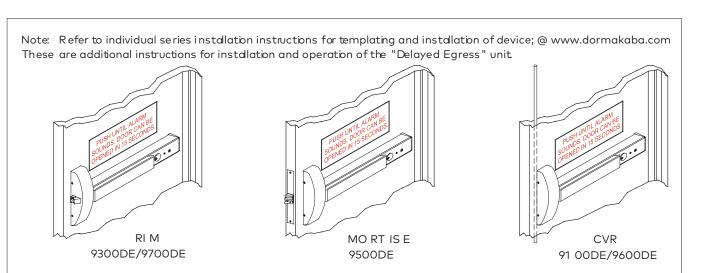
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	Devices x YR09LFSC Electric	
	Trim (Fair Secure) x ES100 Power	
	Supply x ES105 Power Transfer x 3914W	
	Sounder x MC-4 DPS x Card Readers	8
1.9	Single Door: 9300 DE Delayed Egress Exit	
	Device x YR09LFSC Electric	
	Trim (Fail Secure) x ES100 Power Supply x	
	ES105 Power Transfer x 3914W Sounder x	
	MC-4 DPS x Card Readers	9

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#### 1.1 Specifications

85 Decibel Alarm - Standard

LED Status Indicator - Standard

Nuisance Alarm - Standard, DIP Switch Settable

Key Switch Control - Standard

Remote Authorized Egress - Standard, DIP Switch Settable

Remote Re-Arm - Standard

Remote Bypass - Standard

Door Position Input - Standard, DIP Switch Settable

Auto Reset or Manual Reset, DIP Switch Settable

Auto - Stanadard (Manual - in CA)

Additional Form "C" Relays For Optional Horn etc.

(Rated 1 amp @ 30 vdc)

Fire Alarm Connection

Paired Doors Connection

#### REQUIRES dormakaba ES-100 or AD100 POWER SUPPLY.

Easily accessible slide in and outelectronics.

Meets UL, ANSI/BHMA & CBC requirements.

SIZE A: (9300DE/9500DE/9100DE)

Will fit 48" door opening without cutting.

Can be cut to fit a 40 1/2" minimum door opening.

SIZE B: (9300DE/9500DE/9100DE)

Will fit 36" door opening without cutting.

Can be cut to fit a 34 1/2" minimum door opening.

SIZE AA: (9600DE/9700DE Series)

Will fit 48" (12 19 mm) door opening without cutting.

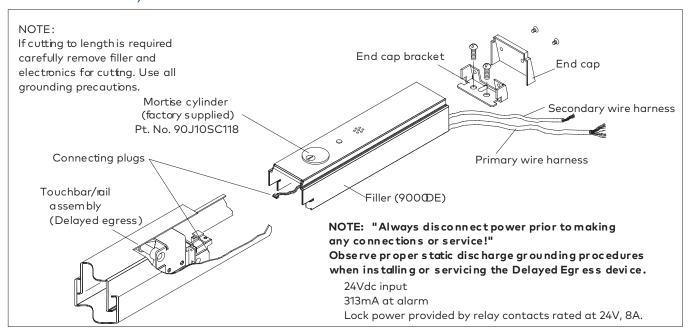
Can be cut to fit a 39 1/2" minimum door opening.

SIZE BB: (9600/9700DE)

Will fit 36" door opening without cutting.

Can be cut to fit a 32" minimum door opening.

## 1.2 Assembly

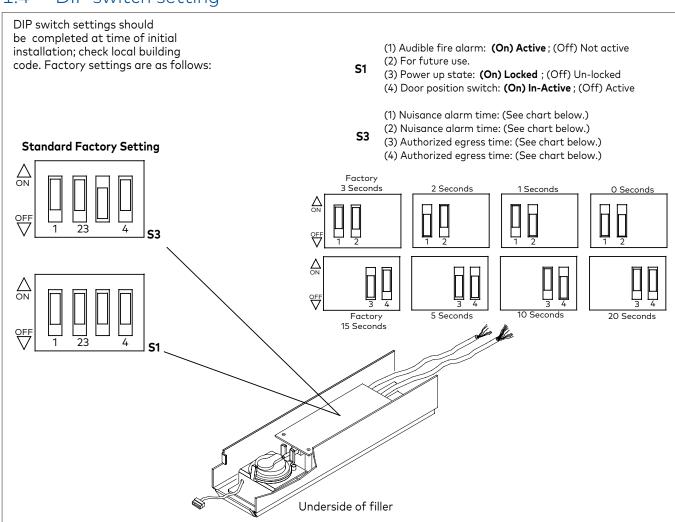


### 1.3 Cylinder specifications

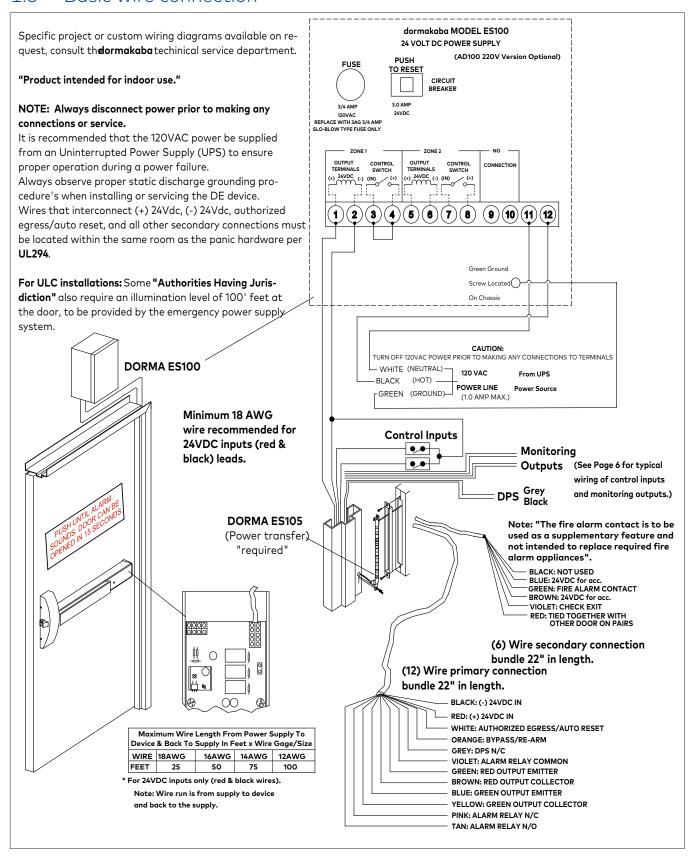
To Change Cylinder: Carefully remove filler from rail. Unscrew cylinder nut, remove actuator and replace cylinder. Spacer required for cylinders Standard 11/8" mortise cylinder, randomly over 11/8". Insert cylinder as shown, re-install actuator & secure with keyed supplied by factory. Spacer required cylinder nut. Do not over tighten. Re-install filler in rail and reconnect the for longer cylinder such as when using an small pigtail connectors. Use caution not to pinch or bind wires. IC core. Note: If DIP switch settings are required to be changed, do it now prior to - 5/16" - 11/32" re-installing filler in rail. (See Section below.) 11/8" Standard Cylinder nut 4000-167-501 (6310D) Actuator-DE 21/32" Cam 95055525 DE filler Underside of filler Cylinder

90J10SC118

### 1.4 DIP switch setting



#### 1.5 Basic wire connection



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#### 1.6 Key switch operation for device

**Delayed Egress Mode:** Unit is armed and touch bar will not activate the latchbolt. **(LED is solid green, audible alarm is off)** . Initiated after power up, (DIP switch #2 in OFF position) authorized egress mode or re-arm mode.

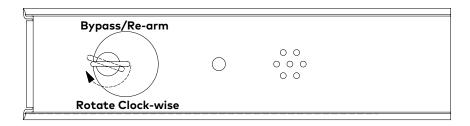
**Nuisance Alarm Mode:** Unit is armed and touch bar will not activate the latch bolt. **(LED is solid green, audible alarm sounds a short tone)** DIP switch selectable for 0, 1, 2 or 3 seconds. (See page 2) Initiated by depressing touch bar.

**Delay Mode:** Unit is armed and touch bar will not activate the latch bolt. **(LED is solid yellow, audible alarm sounds intermittent tone)** . Unit remains in the delay mode for 15 seconds (including nuisance time). Initiated by holding the touch bar depressed past the nuidance alarm time (30 second delay mode option available.) Once started, the delay mode is irreversible and automatically initiates the alarm mode.

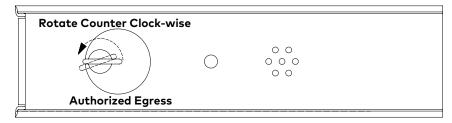
**Alarm Mode:** Unit is disarmed and touch bar will activate the latch bolt **(LED is solid red, audible alarm sounds continous tone)** . Initiated automatically from the delay mode and is irreversible. Unit remains in the alarm mode until manually reset with key.

**By-Pass Mode:** From the delayed egress mode; unit is continuously disarmed and touch bar will activate the latch bolt (LED slowly flashes green, audible alarm is off). Initiated by rotating the key clockwise (approximately 180 degrees), until switch engages, hold key until mode is activated. DPS input is disabled.

**Re-arm Mode:** From alarm mode; unit goes to the delayed egress mode. Initiated by rotating the key clockwise (approximately 180 degrees) until switch engages, hold key until mode is activated. From the bypass mode; unit goes to the delayed egress mode. Initiated by rotating the key clockwise (approximately 180 degrees.) until switch engages, hold key until mode is activated. **The LED will return to solid green** 

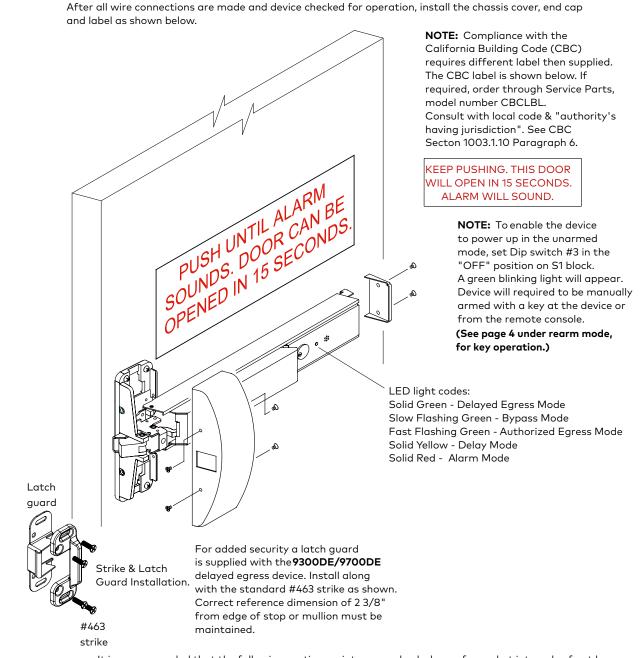


Authorized Egress Mode: Unit is disarmed for 5, 10, 15 or 20 seconds (DIP switch selectible) and touch bar will activate the latch bolt(LED quickly flashes green, audible alarm is off). After the authorized egress time unit returns to the delayed egress mode automatically. The authorized egress mode is initiated by rotating the key counter-clockwise (approximately 180 degrees) until switch engages, hold key until mode is activated. DPS input will not initiate during the initial egress time, but will terminate the egress time if the DPS closes before the end of egress time. DPS input will initiate an alarm after the egress time if the DPS is opened.



**NOTE:** The **By-pass mode** and **Re-arm mode** (orange wire) may be intiated externally from the terminal connector. (Normally open dry contact to ground.) The **Authorized Egress mode** (white wire) may be initiated externally from the terminal connector (Normally open dry contact to ground). See page 6 for additional details.

### 1.7 Cover, end cap and label



It is recommended that the following routine maintenance checks be performed at intervals of not less than once a month, and as a requirement by the local authority having jurisdiction, by the occupant or his approved representative:

- a) Inspect and operate the panic device to ensure that all components are in satisfactory working conditon.
- b) Ensure that all strikes are free from obstruction.
- c) Ensure that the fire alarm system and electronic function of device are in working order.

This product meets or exceeds the following standards: ANSI/BHMA 156.3, CBC Section 1003.1.10, California State Fire Marshal, NFPA 80 &101 and UL Listed FWAX, FWAX7

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#### 1.8 Pair of doors: 9100 DE Delayed Egress Exit Devices x YR09LFSC Electric Trim (Fair Secure) x ES100 Power Supply x ES105 Power Transfer x 3914W Sounder x MC-4 DPS x Card Readers

OPERATION: Both 9100 DE Exit Devices are armed (Delayed Egress Mode). Release of latch bolts by touch bar is prevented. If touch bar is depressed for longer than the Nulsance Delay Time (field selectable) an irreversible alarm sequence is initiated at 9100 DE and remote 3914W Sounder (Delay Mode). After the delay mode time has expired (field selectable), both 9100 DE Exit Devices are disarmed and touch bar is enabled to retract the latch bolts (Alarm Mode). Audible alarm will sound continuously at 9100 DE and remote 3914W Sounder

both 3100 DE Exit Devices are examined locally by key with key switch on either 9100 DE (Re-Arm Mode).

Authorized Egress: When a valid card is presented at Interior Card Reader or either 9100 DE (Re-Arm Mode).

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Authorized Egress: When a valid card is presented at Interior Card Reader or either 9100 DE (ex) switch is rotated counter-clockwise, both 9100 DE Exit Devices are disammed for felton at large sequence (Authorized Egress Mode). After the authorized egress time has expired both 9100 DE Exit Devices will automatically re-arm. If either door is held open longer than the authorized egress time the MC-4 Door Position Switch will activate the alarm of the 9100 DE Exit

Authorized Entrance: When a valid card is presented at exterior Card Reader both 9100 DE Exit Devices are disarmed for field selectable time enabling the touch bar to retract the latch bolts without Initiating the alarm sequence (Authorized Egress Mode). Simultaneously the YR09LFSC Electric Trim is unlocked allowing entrance by depressing lever. After authorized egress time has expired both 9100 DE Exit Devices will automatically re-arm and the YR09LFSC Electric Trim will relock securing door. (FAIL SECURE). If either door is held open longer than the authorized egress time the MC-4 Door Position Switch will activate the alarm of the 9100 DE Exit Device at that door (Alarm Mode). Entrance is also possible by key over ride of YR09LFSC Electric Trim however when door is opened MC-4 Door Position Switch will activate alarm of 9100 DE Exit Device and remote 3914W Sounder (Alarm Mode).

FIRE ALARM ACTIVATION: Both 9100 DE Exit Devices are unlocked and alarm is activated (Alarm Mode). YR09LFSC Electric Trim is locked (FAIL SECURE). Immediate egress is possible by depressing touch bar of either 9100 DE Exit Device. Entrance is possible by key over ride of YR09LFSC Electric Trlm. 9100 DE Exit Device alarm and remote 3914W Sounder will sound continuously until rearmed locally by key with key switch on 9100 DE Exit Device (Re-Arm Mode)..

- NOTES: 1) 9100 DE Exit Devices to be controlled by UL Listed Fire Alarm Panel.
  2) N.O. triggers from both Card Readers to initiate 9000 DE Authorized Egress should be set for 1 second.
  3) N.O. trigger from exterior Card Reader to unlock YR09LFSC Electric Trim should be set to allow adequate time to depress lever and open door.
  - 4) All wiring and interface between EAC components to be determined and supplied by others.

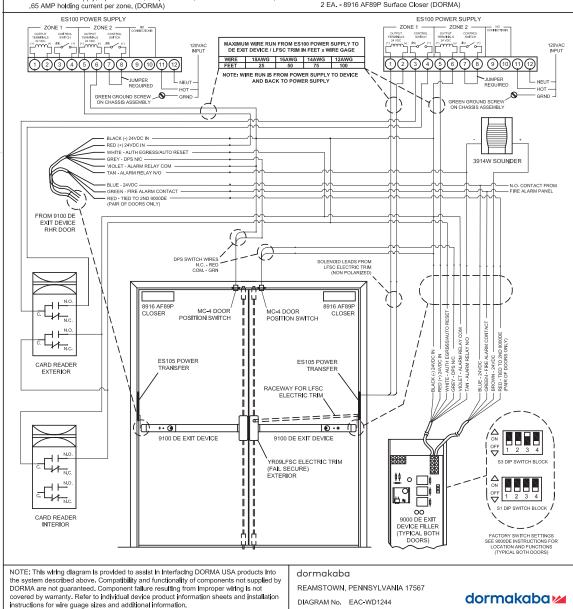
#### PARTS LIST:

- 2 EA. 9100DE Delayed Egress Exit Device, 24VDC, 5AMP inrush current,
- .5AMP holding current (DORMA)

  1 EA. YR09LFSC Fail Secure Electric Trim, .140Amp @ 24VDC, (DORMA)

  2 EA. ES100 Power Supply, Input: 120VAC, Output: 24VDC, 6 AMP Inrush .5 seconds,

- 2 EA. ES105 Power Transfer (DORMA) 2 EA. MC-4 Door Position Switch, SPDT 250mA @ 30VAC/DC (DORMA)
- 1 EA. 3914W Sounder, 63mA @ 24VDC (DORMA) 2 EA. Card Reader (BY OTHERS) 2 EA. 8916 AF89P Surface Closer (DORMA)



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#### 1.9 Single Door: 9300 DE Delayed Egress Exit Device x YR09LFSC Electric Trim (Fail Secure) x ES100 Power Supply x ES105 Power Transfer x 3914W Sounder x MC-4 DPS x Card Readers

OPERATION: 9300 DE Exit Device is armed (Delayed Egress Mode). Release of latch bolt by touch bar is prevented. If touch bar is depressed for longer than the Nulsance Delay Time (field selectable) an irreversible alarm sequence is initiated at 9300 DE and remote 3914W Sounder (Delay Mode). After the delay mode time has expired (field selectable), 9300 DE Exit Device is disarmed and touch bar is enabled to retract the latch bolt (Alarm Mode). Audible alarm will sound continuously at 9300 DE and remote 3914W Sounder until 9300 DE Exit

Device is rearmed locally by key with key switch on 9300 DE (Re-Arm Mode). Audioide alarm will sound continuously at 9300 DE and remote 9914W Sounder until 9900 DE EXT. Device is rearmed locally by key with key switch on 9300 DE (Re-Arm Mode). Authorized Egress: When a valid card is presented at Interior Card Reader or the 9300 DE key switch is rotated counter-dockwise, the 9300 DE is disarmed for field selectable time enabling the touch bar to retract the latch bolt without initiating the alarm sequence (Authorized Eggress Mode). After the authorized egress time has expired the 9300 DE Exit Device Will authorized lately re-arm. If door is held open longer than the authorized egress time the MC-4 Door Position Switch will activate the alarm of the 9300 DE Exit Device (Alarm Mode). Authorized Entrance: When a valid card is presented at exterior Card Reader the 9300 DE is disarmed for field selectable time enabling the touch bar to retract the latch bolt without Initiating the alarm sequence (Authorized Egress Mode). Simultaneously the YR09LFSC Electric Trim is unlocked allowing entrance by depressing lever. After authorized egress time has expired the 9300 DE device will automatically re-arm and the YR09LFSC Electric Trim will relock securing door. (FAIL SECURE). If door is held open longer than the authorized egress time the MC-4 Door Position Switch will activate the alarm of the 9300 DE Exit Device (Alarm Mode). Entrance is also possible by key over ide of YR09LFSC Electric Trim will never when door is opened MC-4 Door Position Switch will activate alarm of 9300 DE Exit Device and remote 3914W Sounder (Alarm Mode).

FIRE ALARM ACTIVATION: 9300 DE Exit Device is unlocked and alarm is activated (Alarm Mode). YR09LFSC Electric Trim is locked (FAIL SECURE). Immediate egress is possible by depressing touch bar of 9300 DE Exit Device. Entrance is possible by key over ride of YR09LFSC Electric Trim. 9300 DE Exit Device alarm and remote 3914W Sounder will sound continuously until rearmed locally by key with key switch on 9300 DE Exit Device (Re-Arm Mode).

NOTES: 1) 9300 DE Exit Device to be controlled by UL Listed Fire Alarm Panel.

- 2) N.O. triggers from both Card Readers to initiate 9000 DE Authorized Egress should be set for 1 second.
  3) N.O. trigger from exterior Card Reader to unlock YR09LFSC Electric Trim should be set to allow adequate time to depress lever and open door.
  - All wiring and interface between EAC components to be determined and supplied by others.

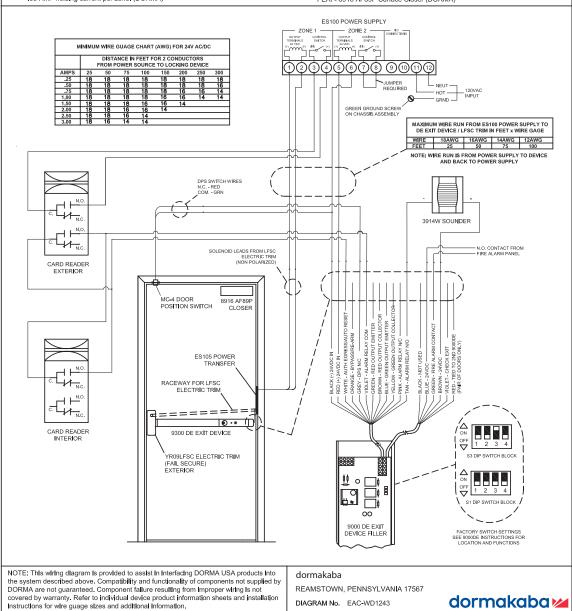
#### PARTS LIST:

- 1 EA. 9300DE Delayed Egress Exit Device, 24VDC, 5AMP inrush current,
- ...5AMP holding current (DORMA)

  1 EA. YR09LFSC Fail Secure Electric Trim, .140Amp @ 24VDC, (DORMA)

  1 EA. ES100 Power Supply, Input: 120VAC, Output: 24VDC, 6 AMP Inrush .5 seconds, .65 AMP holding current per zone. (DORMA)
- 1 EA, ES105 Power Transfer (DORMA)
- 1 EA. MC-4 Door Postllon Switch, SPDT 250mA @ 30VAC/DC (DORMA) 1 EA. 3914W Sounder, 63mA @ 24VDC (DORMA) 2 EA. Card Reader (BY OTHERS)

  - 1 EA. 8916 AF89P Surface Closer (DORMA)



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