

# Installation Instructions

## ES9000 Series

### Electric Latch Retraction

#### Specifications

Solenoid: 36VDC  
 In-rush Current: 14-18 amps required for 100 milliseconds.  
 Holding current: 117 milliamps continuous after in-rush.

Requires DORMA PS-501 Power Supply (other power supplies will damage the solenoid.)  
 PS-501 will operate (2) devices, adding a second ES-2 logic card allows the addition of (2) more devices.

Maximum Wire Run From Power Supply To Device And Back				
WIRE	18GA	16GA	14GA	12GA
FEET	25	50	75	100

**NOTE:**  
 For optimum performance of the device and power supply; locate power supply as close to exit device as possible, preferably in ceiling overhead.

#### Operation of "ES" Exit Device

Once the "ES" device is installed and connected to the PS-501 power supply normal operation requires a switch such as a push button, card reader, keypad etc., to close the contacts located within the power supply. Once the contacts are closed the "ES" device should retract fully and remain retracted until the switching contacts are opened. An adjustable potentiometer is located inside the power supply which will allow the device to remain retracted for a period of time (0 - 5 minutes) once the contacts are opened.

(2) "ES" units can be controlled by the PS-501 as well as (2) additional units if an optional ES-2 card is installed.

The "ES" touch bar and rail assembly may be used with all 9000 Series exit devices, however, the length of the touch bar and rail is normally longer on the narrow style doors.

Install "ES" chassis on door (do not tighten). Slide touch bar and rail assembly under rear of chassis, aligning slots in rear of chassis with front edges of rail. Align guide pin located on bolt lever with slot in "ES" arms as shown below. Secure touch bar and rail to chassis with screws provided.

**ES9000 SERIES**

**SIZE A:**

48" door opening without cutting.  
 Can be cut to fit a 34" minimum door opening.

**SIZE B:**

36" door opening without cutting.  
 Can be cut to fit a 28" minimum door opening.

**ES9000 SERIES**

**SIZE AA:**

48" door opening without cutting.  
 Can be cut to fit a 32 1/2" minimum door opening.

**SIZE BB:**

36" door opening without cutting.  
 Can be cut to fit a 26 1/2" minimum door opening.

