

## Electric Latch Retraction — EL



The EL feature allows for the remote unlatching of exit devices. A control station operator can flip a switch to retract the latch bolt and immediately change an exit door to push-pull operation. A powerful, continuous duty solenoid retracts the latch bolt, either for momentary unlatching, or for extended periods of time. The EL feature is an alternative to manual dogging. If manual hex-key dogging is required, specify HD-EL. If cylinder dogging is required, the standard cylinder dogging is not available, but special center case dogging is available, specify SD-EL. SD-EL is not available on the 9875 or 9975 devices.

EL devices are also useful with automatic door operators, and may be applied to fire-rated applications when under the control of an **automatic fire alarm system**.

UL approved for Class II circuit applications.

The EL option does not include the power transfer from door to frame, the power supply, or the control operator. Refer to EPT-2 power transfer and the PS873 power supply.

The PS873 with the 871-2 option card is minimum option card required. Other option cards available for other functions, see PS873 power supply for additional information.

### Solenoid Specifications:

- Continuous Duty — 24 VDC
- Current Inrush — 16 Amps
- Current Holding — 0.3 Amps

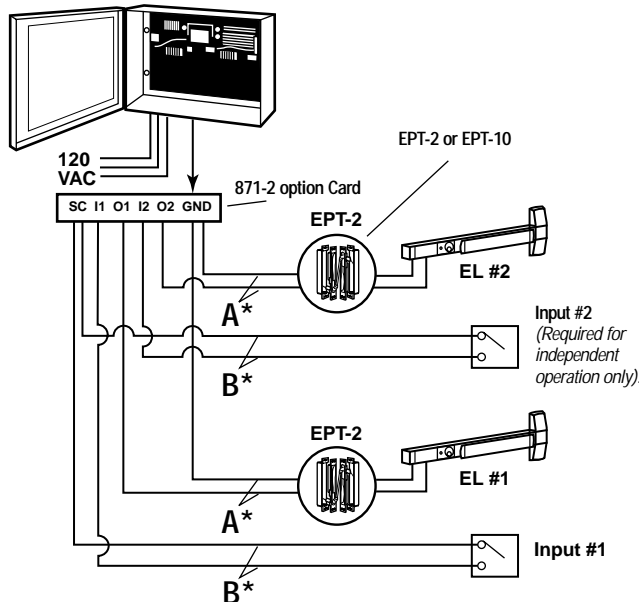
### To order, specify:

- Standard — Use prefix EL, example EL99L.
- Hex Key dogging — Use prefix HD-EL, example HD-EL99L
- Special Center Case Dogging — Use prefix SD-EL, example SD-EL99L

## Popular EL Application

### Power Supply PS873-2

Electric Power Transfer EPT-2 or EPT-10



## Signal Switch — SS



### Monitors pushpad and latch bolt

The SS feature is used to signal the unauthorized use of an opening. This device is equipped with two internal SPDT switches. One switch monitors both the pushpad and the latch bolt assembly, making the latch bolt tamper resistant for positive security. An additional SPDT switch is connected to the 1 1/4" (32mm) mortise with straight cam for alarm "bypass." (Schlage cam reference B502-191). The device can be connected to a security console, or may be used as a single door alarm when used with a horn and power supply. A continuous current electric transfer must be used for transferring power from the frame to the door.

Pushpad reads:

"EMERGENCY EXIT ONLY – PUSH TO OPEN AND SOUND ALARM." Pushpad is only available in US32D finish with red silk-screened lettering.

The SS mortise lock device is furnished with both the signal switch device and the SS7500 mortise lock. The SS7500 mortise lock has the versatility and advantages of the 7500 lock with the addition of signalling functions to monitor latch bolt operation and the trim locking function. The SS7500 mortise lock is supplied standard with the SS mortise lock device.

### To Order, Specify:

- Prefix SS, example SS99L.
- Handing Required, LHR or RHR.

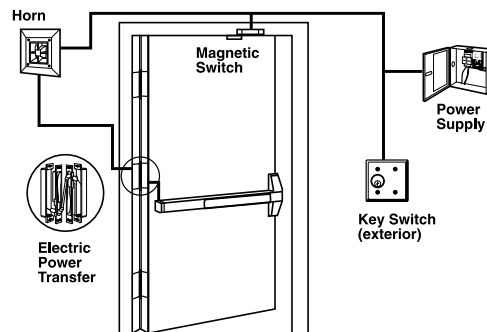
### Electrical Ratings:

Up to 2.0 AMPS @ 24VDC

### Popular SS Application

Unauthorized use of this opening will activate the local horn.

The key switch permits inhibiting this system for authorized entry.



### EL Device Wire Selection Size

A*	Run Length	EL Device w/EPT or Door Loop
	0-100 ft.	14 gauge
	100-200 ft.	12 gauge

A*	Run Length	EL Device w/Electric Hinge/Pivot
	0-75 ft.	14 gauge
	75-150 ft.	12 gauge

B*	Wire Selection	Switch Wire Size
	1200 ft. Max.	18 gauge



299 Strike

**98 and 99 rim exit devices** for all types of single and double doors with mullion, UL listed for Panic Exit Hardware. Devices are ANSI A156.3 – 2001 Grade 1. The 98 device has a smooth mechanism case and the 99 device has a grooved case. The rim device is non-handed except when the following device options are used: SD (Special Dogging), -2 (Double Cylinder) or SS (Signal Switch). See Opposite page for available outside trim and device functions. Covers stock hollow metal doors with 86 or 161 cutouts on single doors (may cover cutouts on pairs – consult template).




The 98/99 devices are available in the following finishes: US3, US4, US10, US26, US26D, US28, 313AN, 315AN and US32D for the 98 device only. See page 52 for component finishes and the inside cover for finish chips.





### Specifications

<b>Device Functions</b>	Device ships EO/DT/NL. Field selectable. For TP,K,or L remove NL drive screw from device		
<b>Device Lengths</b>	3'	2'4" to 3' (711mm to 914 mm)	Door Size
	4'	2'10" to 4' (864 mm to 1219 mm)	Door Size
<b>Strikes</b>	299 – Dull Black Optional Strikes – see page 39		
<b>Dogging Feature</b>	Hex key dogging standard		
<b>Dogging Options</b>	CD	Cylinder Dogging	see page 48
	SD	Special Center Case Dogging	see page 48
	LD	Less Dogging	see page 48
<b>Electric Options</b>	LX	Latchbolt Monitor Switch	see page 42
	RX	Pushpad Monitor Switch	see page 42
	RX2	Double Pushpad Monitor Switch	see page 42
	E	Electric Locking & Unlocking	see page 44
	EL	Electric Latch Retraction	see page 43
	SS	Signal Switch	see page 43
	CX	Chexit Delayed Exit	see page 45
	ALK	Alarm Exit Kit	see page 42
<b>Miscellaneous Options</b>	PN	Pneumatic Latch Retraction	see page 48
	-2	Double Cylinder	see page 48
	GBK	Glass Bead Kit	see page 49
<b>Fasteners &amp; Sex Bolts (SNB)</b>	Includes 1 ¾" (19mm) – 2 ¼" (57mm) Wood & Metal Doors Optional SNB available for device, see next page for quantities		
<b>Latch Bolt</b>	Deadlocking, ¾" (19mm) throw		
<b>Device Centerline from Finished Floor</b>	39 13/16" (1011 mm) 39 11/16" (1008 mm) with Mullion		
<b>Center Case Dimensions</b>	8" x 2 ¾" x 2 3/8" (203mm x 70mm x 60mm)		
<b>Mechanism Case Dimensions</b>	2 ¼" x 2 ¼" (57mm x 57mm)		
<b>Projection</b>	Pushbar Neutral – 3 13/16" (97 mm) Pushbar Depressed – 3 1/16" (78 mm)		

See page 53 for How to Order specification

# VON DUPRIN® 98/99™ Rim Exit Device Standard Trim

	Exit only	Dummy Trim Pull when Dogged	Night Latch Key Retracts Latchbolt	Night Latch Key Retracts Latchbolt Optional Pull Required
				
Product Description	98EO 99EO	98DT 99DT	98NL 99NL	98NL-OP 99NL-OP
Trim Description	---	990DT	990NL-R/V	110NL-MD 110NL-WD
Escutcheon Plate Size	---	3" x 14 <sup>3</sup> / <sub>16</sub> " x <sup>3</sup> / <sub>32</sub> " (76x360x2mm)	3" x 14 <sup>3</sup> / <sub>16</sub> " x <sup>3</sup> / <sub>32</sub> " (76x360x2mm)	---
Pull Center to Center	---	5 <sup>1</sup> / <sub>2</sub> " (140mm)	5 <sup>1</sup> / <sub>2</sub> " (140mm)	---
Projection	---	2" (51mm)	2" (51mm)	---
ANSI Function	01	02	03	03
Cylinder Type	---	---	Rim	Rim
Optional Trim (See pages 32 – 34)	x990EO x992EO x994EO x996EO	x991K-DT x992L-DT x994L-DT x996L-DT x696DT x697DT	x991K-NL x992L-NL x994L-NL x996L-NL x696NL x697NL	
Optional #425 Sex Bolt Quantity for Device	6	2	2	6

	Lever Key Locks & Unlocks	Lever – Night Latch Key Retracts Latchbolt	Lever – Blank Escutcheon Always operable (No Cylinder)	Lever Dummy Trim Pull when Dogged
				
Product Description	98L 99L	98L-NL 99L-NL	98L-BE 99L-BE	98L-DT 99L-DT
Trim Description	996L-R/V	996L-NL-R/V	996L-BE-R/V	996L-DT-RV
Escutcheon Plate Size	2 <sup>3</sup> / <sub>4</sub> " x 10 <sup>3</sup> / <sub>4</sub> " x <sup>27</sup> / <sub>32</sub> " (70x273x21mm)	2 <sup>3</sup> / <sub>4</sub> " x 10 <sup>3</sup> / <sub>4</sub> " x <sup>27</sup> / <sub>32</sub> " (70x273x21mm)	2 <sup>3</sup> / <sub>4</sub> " x 10 <sup>3</sup> / <sub>4</sub> " x <sup>27</sup> / <sub>32</sub> " (70x273x21mm)	2 <sup>3</sup> / <sub>4</sub> " x 10 <sup>3</sup> / <sub>4</sub> " x <sup>27</sup> / <sub>32</sub> " (70x273x21mm)
Pull Center to Center	---	---	---	---
Projection	2 <sup>7</sup> / <sub>8</sub> " (73mm)	2 <sup>7</sup> / <sub>8</sub> " (73mm)	2 <sup>7</sup> / <sub>8</sub> " (73mm)	2 <sup>7</sup> / <sub>8</sub> " (73mm)
ANSI Function	08	09	---	02
Cylinder Type	Rim	Rim	---	---
Optional Trim (See pages 32 – 34)	x992L x994L	x992L-NL x994L-NL	x992L-BE x994L-BE	x992L-DT x994L-DT
Optional #425 Sex Bolt Quantity for Device	2	2	2	2

For optional trims and functions see pages 32-34