

# 33A/35A Electrical options

## QEL Quiet electric latch retraction

The QEL 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. Different than the popular EL, the QEL quiet operation is achieved using an electric drive motor which retracts the latch bolt either momentary unlatching or for extended periods of time. This feature is an alternative to manual dogging.

QEL 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 QEL 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 PS902 or 914 power supply.

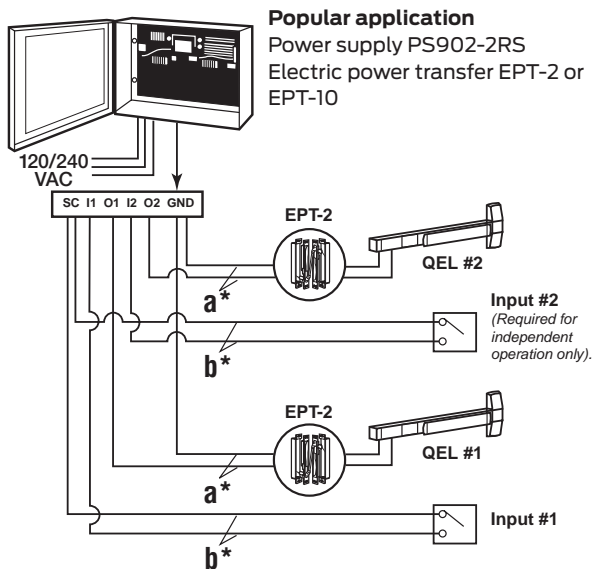
The PS902/914 with the 2RS, 4RL or 4R board is the minimum required. Other option boards available for other functions, see PS902/914 power supply for additional information.

| QEL Electrical load |  |
|---------------------|--|
| Voltage             | 24VDC  |
| Current             | 1.0 A Inrush (0.5 sec.)<br>0.14 A Holding<br>2.0 A Calibrate (3 sec. one time) |

### To order, specify:

- Standard – Use prefix QEL, example QEL33A-L.

### Popular QEL application



### QEL Device wire selection size

| a* | Distance (one-way) | Wire Gauge |
|----|--------------------|------------|
|    | 200 ft.            | 18 AWG     |
|    | 320 ft.            | 16 AWG     |
|    | 500 ft.            | 14 AWG     |
|    | 800 ft.            | 12 AWG     |

| b* | Wire selection | Switch wire size  |
|----|----------------|-------------------|
|    | 1200 ft. Max.  | 18 gauge standard |

## EL Electric latch retraction

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.

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 PS914 power supply.

The PS914 with the 900-2RS option card is minimum option card required. Other option cards available for other functions, see PS914 power supply for additional information.

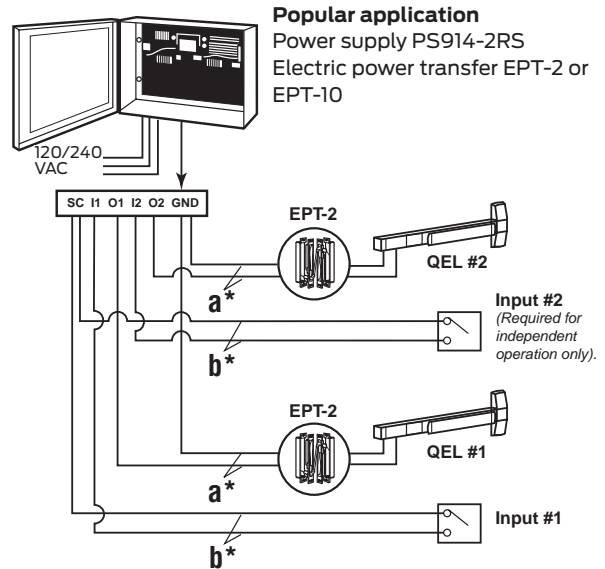
### Solenoid specifications:

Continuous Duty – 24 VDC  
Current Inrush – 16 Amps  
Current Holding – 0.3 Amps

### To order, specify:

- Standard – Use prefix EL, example EL33AL
- Hex Key dogging – Use prefix HD-EL, example HD-EL33AL

### Popular EL application



### EL Device wire selection size

|    | Von Duprin exit device           | EL Wire length (feet) <sup>1</sup> | Wire gauge (AWG) |
|----|----------------------------------|------------------------------------|------------------|
|    | EL 33A/35A Rim                   | 0-500                              | 12               |
|    |                                  | 0-300                              | 14               |
|    |                                  | 0-200                              | 16               |
| a* | All other EL33A/35A device types | 0-250                              | 12               |
|    |                                  | 0-150                              | 14               |
|    |                                  | 0-100                              | 16               |
| b* | Control Switch                   | 0-1200                             | 18               |

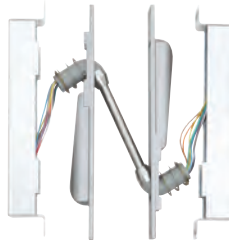
1. Wire lengths include an EPT, Door loop, electric hinge or pivot and are measured one way between the PS914/option board and the device.

2. Table is applicable to devices that have shipped after August 2012.

# 33A/35A Electrical accessories

## EPT Electrical power transfer PNT Pneumatic transfer

Electric power transfer provides a means of transferring electrical power from a door frame to the edge of a swinging door. The units are completely concealed when the door is in the closed position, and are ideally suited for installations involving abuse or heavy traffic.



Two models are available; EPT-2, two 18 gauge wires and EPT-10, ten 24 gauge wires. The EPT-2 and EPT-10 are U/L listed as "miscellaneous door accessory".

### Pneumatic controls

PNT-1 is available for pneumatic latch retraction exit devices. Appearance and dimensions are identical to EPT models.

UL Listed for use on fire doors

### Door applications:

| Degree of opening | Hinge type               | Door thickness |
|-------------------|--------------------------|----------------|
| 0-180             | Up to 5" butt hinges     | 1 3/4"         |
| 0-180             | Up to 3/4" offset pivots | 1 3/4"         |
| 0-130             | 5 1/2" butt hinges       | 1 3/4"         |
| 0-110             | 6" butt hinges           | 1 3/4"         |
| 0-90              | Swing clear hinges       | 1 3/4"         |

### Finishes

SP28 (sprayed aluminum)

SP313 (sprayed duranodic).

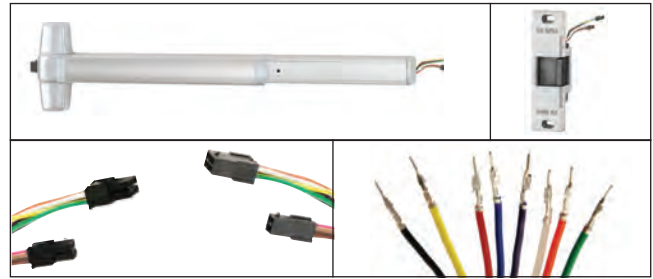
### Dimensions

| Housing | 9" x 1 1/4" x 1 5/8" (229mm x 32mm x 38mm)                             |
|---------|--|
| EPT-2   | Two 18 gauge wires, Up to 2 AMPS @ 24VDC, with a 16 AMPS Maximum Surge |
| EPT-10  | Ten 24 gauge wires, Up to 1 AMPS @ 24VDC, with a 16 AMPS Maximum Surge |
| PNT-1   | 5/32" Tubing   |

### To order, specify:

1. EPT-2, EPT-10 or PNT-1.
2. Finish, SP28 or SP313.

## Allegion Connect



Allegion's cross-category Connect features common interconnect components to our electrified options. Allegion Connect is a quick and easy way to connect power sources; all the way from your power supply to locking device. There is no wire cutting; reducing installation and maintenance time ultimately cutting cost. After installation, Allegion's Connect continues to provide benefits throughout the lifetime of the opening by offering a service kit for repairs or modifications in the future.

### Features and benefits

- Quick: common connections reducing installation time
- Perfect Connections: these factory installed connectors ensure the right wires match up every time
- Protective: the connectors protect the connection points throughout the installation process and lifetime of the opening
- Interchangeable: all Allegion Connect products utilize the same connectors
- Maintenance: you no longer need to cut away wire to disconnect Allegion products, also available is a service kit specifically for Connect products.

| Harness length | Connectors on both ends | Connectors on one end, crimped pins on the other end |
|----------------|-------------------------|--|
| 6 Inches       | CON-6                   | CON-6P   |
| 12 Inches      | CON-12                  | CON-12P  |
| 26 Inches      | CON-26                  | CON-26P  |
| 32 Inches      | CON-32                  | CON-32P  |
| 38 Inches      | CON-38                  | CON-38P  |
| 44 Inches      | CON-44                  | CON-44P  |
| 50 Inches      | CON-50                  | CON-50P  |
| 192 Inches     | CON-192                 | CON-192P   |

Power Supply Wire Harness = Connectors on one end, stripped leads on the other end, offering a direct connection to the power supply

|          |   |
|----------|---|
| 6 Inches | CON-6W - wire extension to power supply |
|----------|---|

Consult door manufacturer for harness length requirements.

**Note:** You will need to purchase a separate wiring harness to go from exit device to hinge/EPT and an additional harness to go from hinge/EPT to power supply or access control system. Harness part numbers with ordering information can be located in the Schlage, Von Duprin and Falcon pricebooks. A service kit is available for order in the Schlage, Von Duprin and Falcon pricebooks. Included in this kit are male end plugs, female end plugs and pins to customize harnesses to your application.

**Note:** Must be ordered with exit devices and locks

### How to order

1. Specify CON for Connect electronic options  
Example: EL-35-EO-CON (35 Series Electrified Latching exit only with Connect connectors)
2. Specify harness length; Consult door manufacturer for harness length
3. Specify Von Duprin EPT10-CON or Ives 7200 power transfer hinge

### Wire run options

