

# IP100 Series

Retrofit Electric  
Latch Retraction PoE Kits



SDC's QuietDuo™ IP100 series retrofit electric latch retraction PoE kits enable electric access control and dogging of panic and fire rated mechanical exit devices. When energized the motor retracts the exit device latch and pulls the pushpad into the dogged (depressed) position enabling momentary or sustained push and pull operation of the door. The latch retraction mechanism may be activated by an access control, remote control device or building automation system. No door sequencer required for a pair of manual doors. The exit device always provides uninhibited egress.

IP100 series kits bring all of SDC's electric latch retraction features to power over ethernet (PoE). The use of a motorized electric latch retraction device provides several advantages over solenoids including lower current draw, quieter operation and greater durability over time. Designed with cost savings in mind, SDC's IP100 series retrofit ELR kits not only eliminate the need for costly replacements of existing exit devices, but also provide **cost savings on installation and power requirements due to significantly less labor time and current draw** when compared to competitive retrofit kits. IP100 kits retrofit select exit device brands without removing the device from the door.

IP100 models are one unit completely housed within the rail of the device behind the access cover, whereas IP100-EM models are two piece space saver units, intended to gain up to one inch in spacing within the device, placing the controller board externally to accommodate smaller field cut devices for smaller openings or where space is limited within the rail.



## MODELS

**IP100** Motorized Electric Latch Retraction PoE Kit

**IP100-EM** Motorized Electric Latch Retraction PoE Kit, External Module



## STANDARD FEATURES

- Motorized electric latch retraction and dogging
- Power over ethernet (PoE)
- Panic and fire rated devices
- Simultaneous latch retraction, dogging and pushpad depression\*
- High traffic use
- Low current draw
- Low energy operator compatible

\* Select models do not retract pushpad, only retract the latch. See chart in applications.



## APPLICATIONS

SDC's retrofit motorized electric latch retraction kits are designed to be field installed. However, SDC also offers to install the kit at SDC's factory. Simply send the mechanical exit device

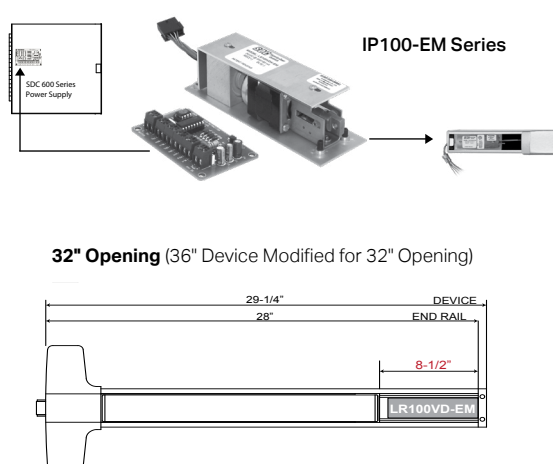
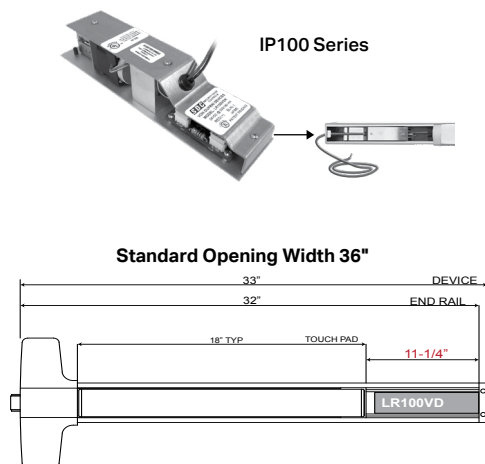
brand of your choice to SDC for factory install. The table below outlines exit device compability and part numbers for both field install and factory installed IP100 kits.

Brand	Opening	Rim	SVR	CVR	Mortise	Field Install	Factory Install
Adams Rite	36"	8700 / 8800 / 3700	-----	-----	-----	IP100ARK*	IP100AR*
Corbin Russwin	36"	ED5200 / ED4200	-----	-----	-----	IP100CRK*	IP100CR*
Falcon	36"	25-R / F-25-R / 24-R / F-24-R	-----	-----	-----	IP100FRK	IP100FR
Hager	36" - 48"	4501-RIM	4501-SVR	-----	-----	IP100HK	IP100H
Sargent	36" - 48"	8800	8700	-----	-----	IP100SGK*	IP100SG*
Sargent	30"	8800	8700	-----	-----	IP100SGK-EM*	IP100SG-EM*
SDC	36" - 48"	S6100	S6200	-----	-----	IP100SDCK	IP100SDC
Von Duprin	36"	98 / 99 / 33A / 35A	9827 / 9927 / 3327A / 3527A	-----	-----	IP100VDK	IP100VD
Von Duprin	42" - 48"	98 / 99 / 33A / 35A	9827 / 9927 / 3327A / 3527A	-----	-----	IP100VDK-42/48	IP100VD-42/48
Yale	36"	7100 / 7102 / 7200	-----	-----	-----	LR100YDK	LR100YD

\* Models do not retract pushpad, only retract the latch.

## SPECIFICATIONS

	IP100	IP100-EM
Type	Retrofit ELR Kit	Retrofit ELR Kit, External Module
Input	12 VDC $\pm$ 10%	12 VDC $\pm$ 10%
Current Draw	700 mA Inrush 200 mA Continuous	700 mA Inrush 200 mA Continuous
Latch Retraction	Motorized	Motorized



Measurements above are example only - all devices vary

## 1| SPECIFY MODEL\*

### FIELD INSTALL KITS

### FACTORY INSTALL KITS\*\*

Adams Rite	<b>IP100ARK</b>	-----	<b>IP100AR</b>	-----
Corbin Russwin	<b>IP100CRK</b>	-----	<b>IP100CR</b>	-----
Falcon	<b>IP100FRK</b>	-----	<b>IP100FR</b>	-----
Hager	<b>IP100HK</b>	-----	<b>IP100H</b>	-----
Sargent	<b>IP100SGK</b>	<b>IP100SGK-EM</b>	<b>IP100SG</b>	<b>IP100SG-EM</b>
SDC	<b>IP100SDCK</b>	-----	<b>IP100SDC</b>	-----
Von Duprin	<b>IP100VDK</b>	<b>IP100VDK-42/48</b>	<b>IP100VD</b>	<b>IP100VD-42/48</b>
Yale	<b>IP100YDK</b>	-----	<b>IP100YDK</b>	-----

\* See chart in applications for complete details on exit device compatibility.

\*\* SDC does not supply exit device. Factory installed kits require a mechanical exit device to be sent to SDC's factory for installation.

STEP NUMBER:

1

ORDERING EXAMPLE:

**IP100VDK**

## RELATED PRODUCTS

### RETROFIT MONITORING KITS

In addition to retrofit motorized electric latch retraction kits, SDC also offers a variety of retrofit monitoring kits for field installation. Request-to-exit (REX) monitoring kits can be used to monitor

the pushpad/dogged status on an exit device. The table below outlines exit device compatibility and part numbers for both request-to-exit (REX) and latch status (LS) monitoring kits.

Brand	Rim	SVR	CVR	Mortise	REX	LS
Adams Rite	8700 / 8800 / 3700	8100 / 8200 / 3100	8500 / 8600 / 3600	-----	LRAR1R	-----
Corbin Russwin	ED5200 / ED4200	ED5400	ED4800 / ED5800	-----	LRAR1R	LRAR1L
Falcon	25-R / F-25-R / 24-R / F-24-R	25-V / F-25-V / 24-V / F-24-V	25-C / F-25-C / 24-C / F-24-C	-----	LRFR1R	-----
Hager	4501-RIM	4501-SVR	-----	-----	LRH1R	LRH1L
Sargent	8800	8700	-----	-----	LRSG1R	-----
SDC	S6100	S6200	S6800	S6300	LRSDC1R	LRSDC1L
Von Duprin	98 / 99	9827 / 9927 / 9857 / 9957	9847 / 9947	9875 / 9975	LRVD1R	LRVD1L
Von Duprin	33A / 35A	3327A / 3527A	3347A / 3547A	-----	LRVD1R	LRVD2L*
Yale	7100 / 7100-2 / 7200	7110 / 7210	7120 / 7220	-----	LR1R	LR1L

\* Available for 33A/35A rim devices only.

## COMPONENT CONSIDERATIONS

### LOW ENERGY OPERATORS

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SDC's low energy swing door operators are designed for applications requiring ADA compliance, user convenience and touchless solutions. The state-of-the-art microprocessor-based operator is self-tuning and self-learning while offering non-handed operation, full mechanical stops, door sequencing and a variety of interface options for sensors, push-plates, fire alarms and electrified locks. A built-in 1 Amp power supply allows users to power electric latch retraction directly from the operator.



### EXIT SWITCHES & SENSORS

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SDC offers a variety of exit button and push button styles and contact configurations to fit several request-to-exit application needs. Additionally, SDC's wave-to-open switches and motion sensors provide hands free compliance and convenience for touchless applications using proven infrared detection technology. A simple wave of the hand in front of our touchless switch models activates the switch to control electric locks/strikes, magnetic locks or automatic door operators for entry or egress.



### KEYPADS & READERS

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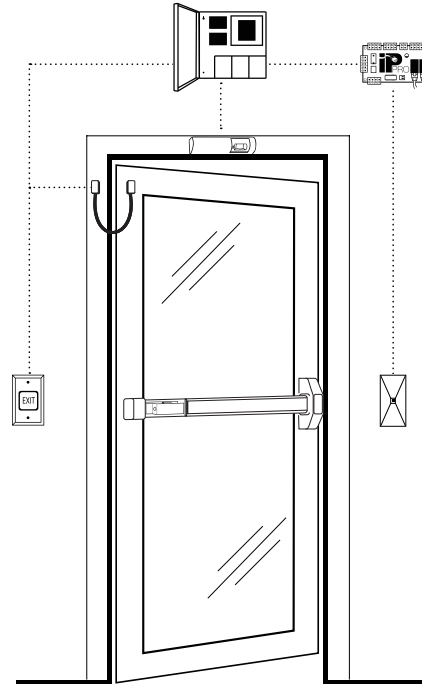
SDC has a variety of digital keypad and proximity card access control system equipment to meet any need. SDC's keypads and readers are engineered to provide real-world door control of a single opening up to 100 doors, such as indoor, outdoor and PC-based systems, while ensuring fire and life safety code compliance along with superior expandability and flexibility in authorization identification, authentication, access approval and accountability of entities through login credentials.



### POWER TRANSFER DEVICES

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Electrified power transfer hinges (PTH Series), loops (PT Series) and mortise devices (PTM Series) provide both surface and concealed methods for running wires from the frame to transfer power and monitoring signals to doors equipped with electric locks and exit devices. Wireless power transfer devices (WPT Series) wirelessly transfer power and monitor latch bolt status, REX or data signals to electrified locks and latches.



### POWER CONTROLLERS

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SDC access control power supplies have been developed specifically to support access controls and electric locking hardware. They are UL listed and provide filtered and regulated linear DC power, with optional control logic, component interface, alarm interface and battery back-up to meet the requirements of single and multiple access-controlled openings. The circuitry design is ideal for the inductive loads generated by access control hardware for high performance and longevity.



### IP-BASED CONTROLLERS

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SDC's low power line of IP-based access control solutions eliminate long cable runs and multiple power supplies by allowing easy integration and connection to an access control system using ordinary ethernet cable in a PoE enabled network. We've ensured they work in low power PoE environments where energy efficiency, flexibility and green and sustainable requirements reach all the way to electronic hardware and locks for controlling door openings.

