LR100 Series

Retrofit Flectric Latch Retraction Kits



SDC's QuietDuo™ LR100 series retrofit electric latch retraction

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 when connected to a suitable power supply. The exit device always provides uninhibited egress.

The patented design was the first retrofit motorized electric latch retraction kit brought to market and has been recognized as the market leader ever since. 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 LR100 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. LR100 kits retrofit select exit device brands without removing the device from the door.

LR100 models are one unit completely housed within the rail of the device behind the access cover, whereas LR100-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

LR100 Motorized Electric Latch Retraction Kit **LR100-EM** Motorized Electric Latch Retraction Kit, External Module



STANDARD FEATURES

- · Motorized electric latch retraction and dogging
- · 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 LR100 kits.

Brand	Opening	Rim	SVR	CVR	Mortise	Field Install	Factory Install
Adams Rite	36" - 48"	8800/3700	8100 / 8200 / 3100	8500/8600/3600		LR100ARK*	LR100AR*
Adams Rite	30"	8700/8800/3700	8100 / 8200 / 3100	8500/8600/3600		LR100ARK-EM*	LR100AR-EM*
Adams Rite	36" - 48"	EX88 / EX89		EX76		LR100AREXK-EM	LR100AREX-EM
Arrow	36" - 48"	S1250	S1150			LR100AWK	LR100AW
Arrow	36"	ED910				LR100AWK-ED910	LR100AW-ED910
Corbin Russwin	36" - 48"	ED5200/ED4200	ED5400	ED4800/ED5800		LR100CRK	LR100CR
Corbin Russwin	30"	ED5200 / ED4200	ED5400	ED4800/ED5800		LR100CRK-EM	LR100CR-EM
Cal-Royal	36"	7700 / F7700	7760 / F7760			LR100CAK	LR100CA
Cal-Royal	36"	GLS9800		GLSCVR9800		LR100CAK-9800	LR100CA-9800
Cal-Royal	36"	2200/F2200/ 9800/F9800	2260 / F2260 / 9860 / F9860			LR100CAK-EM	LR100CA-EM
Design Hardware	36"	1000R	1000V			LR100DHK	LR100DH
Detex	36"	10 / 40	20/50	80/81/62/63		LR100DXK	LR100DX
Dorma	36"	9300/F9300	9400/F9400			LR100DAK	LR100DA
Dor-O-Matic	36"	1790		1690		LR100FAK**	LR100FA**
Dor-O-Matic	33"	1790		1690		LR100FAK-EM**	LR100FA-EM**
Dor-O-Matic	36"	1590		1490		LR100DMK	LR100DM
Falcon	36"	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		LR100FRK	LR100FR
First Choice	36"	3790		3690		LR100FCK**	LR100FC**
First Choice	30"	3790		3690		LR100FCK-EM**	LR100FC-EM**
Hager	36" - 48"	4501-RIM	4501-SVR			LR100HK	LR100H
Hager	30"	4501-RIM	4501-SVR			LR100HK-EM	LR100H-EM
IDC	36" - 48"	8610 / 8180 / 8510 / 8710	8630/8830/ 8530/8730	8650/8850/ 8550/8750	8620 / 8820	LR100IDCK	LR100IDC
IDC	30"	8610 / 8180 / 8510 / 8710	8630/8830/ 8530/8730	8650/8850/ 8550/8750	8620 / 8820	LR100IDCK-EM	LR100IDC-EM
Jackson	36"	2095		2085		LR100JAK**	LR100JA**
Kawneer	36"	1786				LR100KWK-EM	LR100KW-EM
Marks	36"	M9900	M9900VR			LR100MDK	LR100MD
Marshall Best	36"	Q1100 / QF1100	Q1200 / QF1200			LR100MBSK	LR100MBS
Marshall Best	30"	Q1100 / QF1100	Q1200 / QF1200			LR100MBSK-EM	LR100MBS-EM
Pamex	36" - 48"	EF9000	EF9000V	EF9020V		LR100PAK	LR100PA
Pamex	30"	EF9000	EF9000V	EF9020V		LR100PAK-EM	LR100PA-EM
PDQ	36" - 48"	6200R	6200V			LR100PDQK	LR100PDQ
PHI (Precision)	36" - 48"	2100 / 2400 / 5100	2200LBR / 5200LBR	2800LBR / 2600		LR100PDK	LR100PD

^{*} Models do not retract pushpad, only retract the latch.

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^{**} Models require a higher 1 Amp inrush current draw.

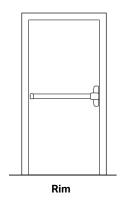
APPLICATIONS

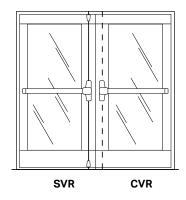
SDC's retrofit motorized electric latch retraction kits are designed to be field installed. However, SDC also offers to install the kit at SDC's factory. Simply send the mechanical exit device

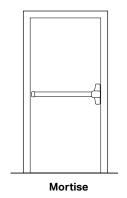
brand of your choice to SDC for factory install. The table below outlines exit device compability and part numbers for both field install and factory installed LR100 kits.

Brand	Opening	Rim	SVR	CVR	Mortise	Field Install	Factory Install
Sargent	36" - 48"	8500 / 8800	8700	8400/8600	8300 / 8900	LR100SGK	LR100SG
Sargent	30"	8500 / 8800	8700	8400/8600	8300 / 8900	LR100SGK-EM	LR100SG-EM
SDC	36" - 48"	S6100	S6200	S6800	S6300	LR100SDCK	LR100SDC
SDC	30"	S6100	S6200	S6800	S6300	LR100SDCK-EM	LR100SDC-EM
Stanley K2	36" - 48"	QED111	QED114	QED124		LR100K2K	LR100K2
Stanley K2	30"	QED111	QED114	QED124		LR100K2K-EM	LR100K2-EM
Tell	36"	9500	9400			LR100TEK	LR100TE
TownSteel	36" - 48"	ED1100	ED1200	ED1300		LR100TSK	LR100TS
TownSteel	30"	ED1100	ED1200	ED1300		LR100TSK-EM	LR100TS-EM
TownSteel	36"	ED5500	ED5600			LR100TSK-55/56	LR100TS-55/56
TownSteel	36"	ED6500	ED6700			LR100TSK-65/67	LR100TS-65/67
Von Duprin	36" - 48"	22	2227			LR100VDK-22*	LR100VD-22*
Von Duprin	30"	22	2227			LR100VDK-22-EM*	LR100VD-22-EM*
Von Duprin	36" - 48"	22	2227			LR100VDK-22V2	LR100VD-22V2
Von Duprin	30"	22	2227			LR100VDK-22V2-EM	LR100VD-22V2-EM
Von Duprin	36" - 48"	98/99/33A/35A	9827 / 9927 / 3327A / 3527A 9857 / 9957	9847 / 9947 / 3347A / 3547A	9875 / 9975	LR100VDK	LR100VD
Von Duprin	30"	98/99/33A/35A	9827 / 9927 / 3327A / 3527A 9857 / 9957	9847 / 9947 / 3347A / 3547A	9875 / 9975	LR100VDK-EM	LR100VD-EM
Yale	36" - 48"	7100 / 7100-2 / 7200	7110 / 7210	7120 / 7220		LR100YDK	LR100YD
Yale	30"	7100 / 7100-2 / 7200	7110 / 7210	7120 / 7220		LR100YDK-EM	LR100YD-EM
Yale	36" - 48"	6100ED				LR100Y6K	LR100Y6
Yale	30"	6100ED				LR100Y6K-EM	LR100Y6-EM

^{*} For Von Duprin 22 models manufactured in 2021 or earlier.









	LR100	LR100-EM
Туре	Retrofit ELR Kit	Retrofit ELR Kit, External Module
Input	24 VDC ± 10%	24 VDC ± 10%
Current Draw	700 mA Inrush*	700 mA Inrush*
	200 mA Continuous	200 mA Continuous
Latch Retraction	Motorized	Motorized

^{*} LR100FA, LR100FC and LR100JA models require a higher 1 Amp inrush.

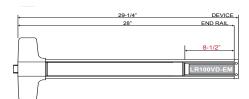




Standard Opening Width 36"



32" Opening (36" Device Modified for 32" Opening)



Measurements above are example only - all devices vary

CERTIFICATIONS

UL 305 Panic Hardware
UL 10C Positive Pressure Fire Tests
ULC-S104 Standard Method for Fire Tests of Door Assemblies
ANSI/BHMA A156.3 Grade 1



FOLLOW STEPS FOR ORDERING

Designates optional step

1| SPECIFY MODEL*

FIELD INSTALL KITS

Adams Rite	LR100ARK	LR100ARK-EM	LR100AREXK-EM	
Arrow	LR100AWK	LR100AWK-ED910		
Corbin Russwin	LR100CRK	LR100CRK-EM		
Cal-Royal	LR100CAK	LR100CAK-9800	LR100CAK-EM	
Design Hardware	LR100DHK			
Detex	LR100DXK			
Dorma	LR100DAK			
Dor-O-Matic	LR100FAK	LR100FAK-EM	LR100DMK	
Falcon	LR100FRK			
First Choice	LR100FCK	LR100FCK-EM		
Hager	LR100HK	LR100HK-EM		
IDC	LR100IDCK	LR100IDCK-EM		
Jackson	LR100JAK			
Kawneer	LR100KWK-EM			
Marks	LR100MDK			
Marshall Best	LR100MBSK	LR100MBSK-EM		
Pamex	LR100PAK	LR100PAK-EM		
PDQ	LR100PDQK			
PHI (Precision)	LR100PDK			
Sargent	LR100SGK	LR100SGK-EM		
SDC	LR100SDCK	LR100SDCK-EM		
Stanley K2	LR100K2K	LR100K2K-EM		
Tell	LR100TEK			
Townsteel	LR100TSK	LR100TSK-EM	LR100TSK-55/56	LR100TSK-65/67
Von Duprin	LR100VDK-22**	LR100-VDK-22-EM**	LR100VDK	LR100VDK-EM
	LR100VDK-22V2	LR100-VDK-22V2-EM		
Yale	LR100YDK	LR100YDK-EM	LR100YDK-42/48	
	LR100Y6K	LR100Y6K-EM		

^{*} See chart in applications for complete for complete details on exit device compatibility.

^{**} For Von Duprin 22 models manufactured in 2021 or earlier.

STEP NUMBER:	1
ORDERING EXAMPLE:	LR100VDK



UL 305 Panic Hardware UL 10C Positive Pressure Fire Tests ULC-S104 Standard Method for Fire Tests of Door Assemblies ANSI/BHMA A156.3 Grade 1



FOLLOW STEPS FOR ORDERING

Designates optional step

1| SPECIFY MODEL*

FACTORY INSTALL KITS**

Adams Rite	LR100AR	LR100AR-EM	LR100AREX-EM	
Arrow	LR100AW	LR100AW-ED910		
Corbin Russwin	LR100CR	LR100CR-EM		
Cal-Royal	LR100CA	LR100CA-9800	LR100CA-EM	
Design Hardware	LR100DH			
Detex	LR100DX			
Dorma	LR100DA			
Dor-O-Matic	LR100FA	LR100FA-EM	LR100DM	
Falcon	LR100FR			
First Choice	LR100FC	LR100FC-EM		
Hager	LR100H	LR100H-EM		
IDC	LR100IDC	LR100IDC-EM		
Jackson	LR100JA			
Kawneer	LR100KW-EM			
Marks	LR100MD			
Marshall Best	LR100MBS	LR100MBS-EM		
Pamex	LR100PA	LR100PA-EM		
PDQ	LR100PDQ			
PHI (Precision)	LR100PD			
Sargent	LR100SG	LR100SG-EM		
SDC	LR100SDC	LR100SDC-EM		
Stanley K2	LR100K2	LR100K2-EM		
Tell	LR100TE			
Townsteel	LR100TS	LR100TS-EM	LR100TS-55/56	LR100TS-65/67
Von Duprin	LR100VD-22***	LR100-VD-22-EM***	LR100VD	LR100VD-EM
	LR100VD-22V2	LR100-VD-22V2-EM		
Yale	LR100YD	LR100YD-EM	LR100YD-42/48	
	LR100Y6	LR100Y6		

^{*} See chart in applications or complete details on exit device compatibility.

^{***} For Von Duprin 22 models manufactured in 2021 or earlier.

STEP NUMBER:	1
ORDERING EXAMPLE:	LR100VD

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



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 compability 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	
Adams Rite	EX88 / EX89		EX76		LRAREX1R	
Corbin Russwin	ED5200/ED4200	ED5400	ED4800/ED5800		LRCR1R	LRCR1L
Cal-Royal	7700 / F7700	7760 / F7760			LRCA2R	
Cal-Royal	9800		GLSCVR9800		LRCA1R	
Detex	10 / 40	20 / 50	80/81/62/63		LRDX1R	
Dorma	9300/F9300	9400/F9400			LRDA1R	
Dor-O-Matic	1790		1690		LRFA1R	
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	
First Choice	3790		3690		LRFC1R	
Hager	4501-RIM	4501-SVR			LRH1R	LRH1L
IDC	8610 / 8180 / 8510 / 8710	8630 / 8830 / 8530 / 8730	8650 / 8850 / 8550 / 8750	8620/8820	LRIDC1R	LRIDC1L
Kawneer	1786				LRKWK1R	LRKWK1L
Marks	M9900	M9900VR			LRMD1R	
Pamex	EF9000	EF9000V	EF9020V		LRPA1R	LRPA1R
Pamex	EF9000	EF9000V	EF9020V		LRPA1RL*	LRPA1RL*
PHI (Precision)	2100 / 2400				LRP1R	LRP1L
PHI (Precision)		2200LBR	2800LBR / 2600		LRP1R	LRP2L
Sargent	8800	8700			LRSG1R	
Sargent	8500/8800	8700	8400/8600	8300/8900	LRSG2R	
SDC	S6100	S6200	S6800	S6300	LRSDC1R	LRSDC1L
Stanley K2	QED111	QED114	QED124		LRK2R	
TownSteel	ED1100	ED1200	ED1300		LRTS1R	
TownSteel	ED5500	ED5600			LRTS2R	
Von Duprin	22	2227			LRVD2R	LRVD1L
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		LRY1R	LRY1L
Yale	6100ED				LRY61R	

^{*} The Pamex LRPA1RL kit is both request-to-exit (REX) and latch status (LS).

^{**} Available for 33A/35A rim devices only.

COMPONENT CONSIDERATIONS

LOW ENERGY OPERATORS





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.

PUSH PLATES & PANELS







SDC's push plates and panels combined with SDC's operators, bollards and locking devices allow for complete access and egress solutions for ADA compliant applications. Included are round and square push plates, as well as wall mount and full-size push panels. All types can be wireless or hardwired, bollard or wall mounted. ADA compliant solutions work seamlessly with low energy swing door operators like Auto EntryControlTM.

KEYPADS & READERS



CLICK TO VIEW





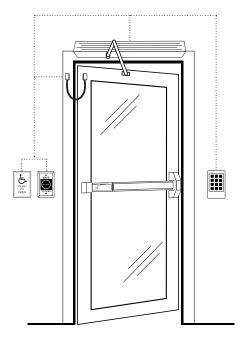
SDC has a variety of digital keypad and proximity card access control system equipment to meet any need. SDC's keypads and readers are engineered to provide real-world door control of a single opening up to 100 doors, such as indoor, outdoor and PC-based systems, while ensuring fire and life safety code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

POWER TRANSFER DEVICES





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

CLICK TO VIEW



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.

DOOR CONTROLS & BACKUP BATTERIES



CLICK TO VIEW

SDC's door control relay modules ensure compatibility of access hardware components and simplify system installation and troubleshooting. Different modules may be specified for one power supply. The isolated relay design allows trigger signals over small gauge cable runs of 22 gauge wire up to 1,000 feet from the trigger device to the module. SDC's engineered system design services are available when you purchase SDC locks, control modules and power controllers for your door opening applications.