A Technical and Informational Newsletter From Dugmore & Duncan

Out of the blue

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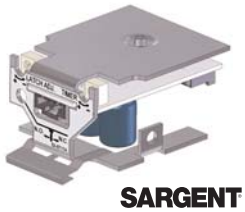
E

SARGENT ED56 Kit

SARGENT's 56-prefix Electric Latch Retraction exit device is the perfect choice for high traffic egress doors that require access control. Utilizing the latch retraction motor rather than a solenoid ensures a quiet and smooth operation with a low current draw. Upgrading existing SARGENT 80 series mechanical rails is effortless with the introduction of the ED56 retrofit kit. The new ED56 kit includes the motor, bracket, push rail assembly mounting fasteners, motor controller and wire harness.



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What's Inside

SARGENT Beacon™

Safe Egress You Can See, Hear & Trust

SARGENT
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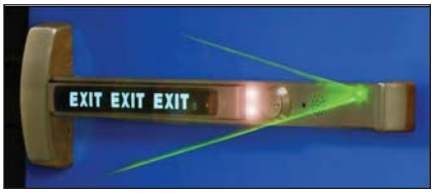
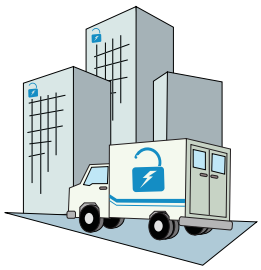


SARGENT introduces Beacon, a next generation exit device that creates a clearer pathway to safety during an emergency. It's the newest addition to the ASSA ABLOY LiteGuide™ family of products. The combination of audible and visible alerts built into the exit device makes Beacon unique and effective.Connected to the building's alarm system, when activated Beacon emits a pulse of light and white noise followed by an audible message declaring "exit located here." A laser light beamed from the exit device forms an arrow shape pointing directly to the illuminated touch bar – allowing occupants to locate the exit and get out quickly.

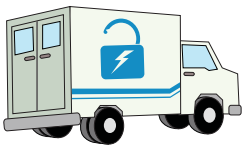
Solutions for Typical Commercial Facilities

The Complete Door Access Control System

Access control systems have never been more secure, aesthetically pleasing and provide life safety more than it has today. Electromechanical door controls are increasing in popularity due to the ease of use and greater levels of control. Today's access control components seamlessly integrate into a building's décor yet provide uncanny strength and reliability. However, a well thought out access control system is imperative to life safety. A weak link in the chain of components can be detrimental to the whole system. Regardless of the commercial facility (office, store, bank) there needs to be a conscious effort to design a complete system that will perform basic tasks of providing security, life-safety and convenience. *Continued on inside*



DUGMORE DUNCAN
Securing Your World

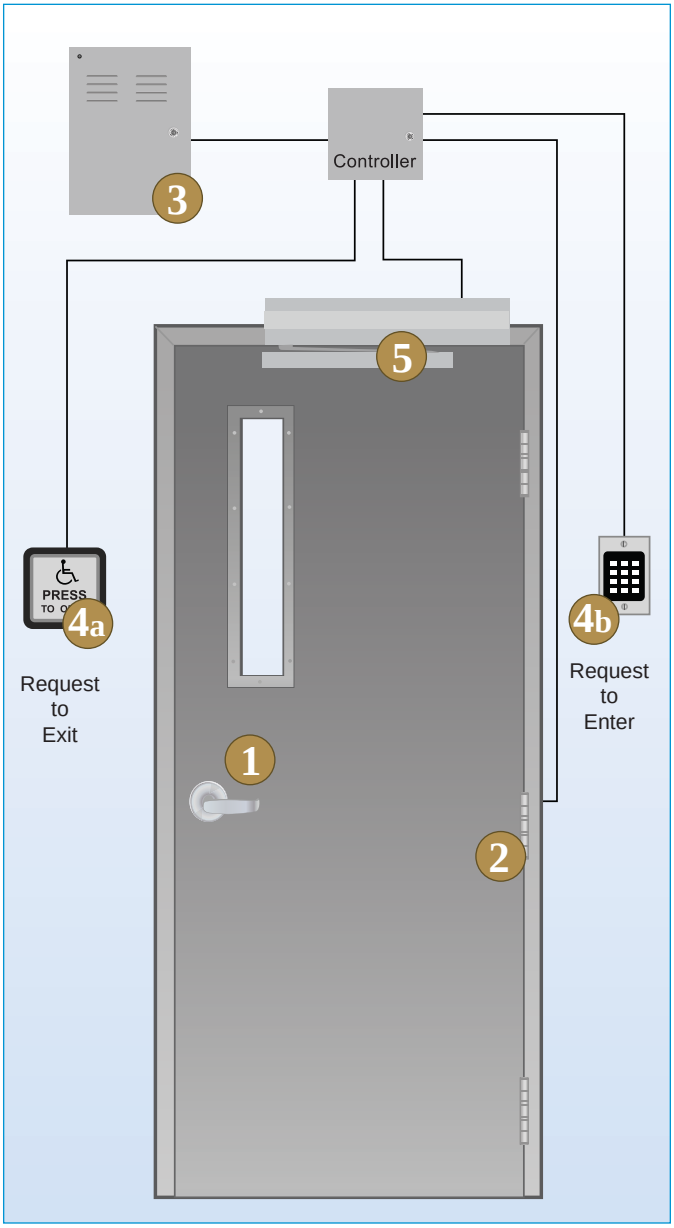


Solutions for Typical Commercial Facilities

The Complete Door Access Control System

Due to the ease of installing and integrating components into a system, electromechanical door controls have become very attractive to building owners, designers and security professionals. Though many of these door control systems consist of stand-alone devices, hardwired systems offer the highest degree of control. Hardwiring often starts with the central control mechanism known as the Network Controller or simply the "controller." This controller is the brains of the system and allows a facility manager or security professional to primarily control all of the door hardware from one central location rather than going to each individual opening.

The controller may be the brains of the system but the security components of each opening make up the muscle. Depending on what type of access is required at each opening there are specific devices that work together to carry out the types of security required. These devices can be classified into five categories; locking devices, transfer devices, power supplies, access control devices and door opening devices.



The above image illustrates a basic access control system with its components. Dugmore & Duncan is a single-source supplier of all these highlighted components and can help you design the system that will work best for your application.

The easy answer to your hardwiring issues.

ASSA ABLOY Door Security Solutions has revolutionized the installation of electro-mechanical door hardware with ElectroLynx, a wiring system of universal plug-in connectors and standardized color-coded wiring that makes installation a snap. All products described in this article come standard with the ElectroLynx system.

Look for the Lynx™
ELECTRO Lynx™
Hardwiring Made Easy™

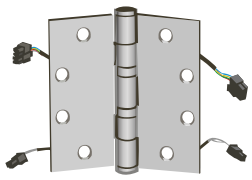
1 Locking Devices

Locking devices are the components that physically lock an opening. They can be subcategorized into five unique types; electrified mortises, electrified cylindrical locks, electric strikes, magnetic locks and electrified exit devices. Mortise locks are a very strong device that provides great torque resistance, security and a wide variety of functions. Cylindrical locks require less door preparation than a mortise lock and can be less expensive and easier to install. Electric strikes are solenoid-operated devices that will unlock or lock the door when electrical power is applied to it. When someone is "buzzed in" at an opening, a button is being pushed to send AC current to the device which creates the buzzing sound. DC power is used to eliminate the buzzing sound if required. Magnetic locks use electromagnets to strongly secure a door with extreme holding forces when electricity is applied. Exit devices are a diverse locking device that offers the greatest number of electromechanical functions, such as delayed egress which will sound an alarm and remain locked for up to 15 seconds.

80 Series Electroluminescent Exit Device

2 Transfer Devices

Transfer devices are components that transmit power to a locking device. These devices include hinges with concealed wires for internal applications and door cord devices for external applications.


McKinney ASSA ABLOY Electrolynx Hinge

3 Power Supplies

No access control opening would be able to work without a source of power. Power supplies fulfill the need for electricity by plugging into an AC power source and then distributing the correct amount of electricity to each device. Many power supplies even offer a battery backup in case of a power failure.

BPS-12/24-1 Power Supply

4 Access Control Devices

Access control devices are the components that work in conjunction with the locking devices. These access control devices or "switches" send a signal to activate or deactivate the lock. There are many different styles of switches depending on whether an application requires a request to exit or request to enter. These varieties include keypads, push buttons, card readers, motion sensors and biometric readers.

Norton ASSA ABLOY
574 Push Button

5 Door Opening Devices

In some applications a door opening device needs to be added to a system. Once considered a necessity only for those with physical challenges today, due to the population's busy lifestyles, the convenience of "hands-free" door opening is more popular than ever.

5700 Series LEO Power Operator

The Extra Heavy-Duty Cylindrical Lever Locksets

Corbin Russwin® CL3300 Series
Grade 1 cylindrical lockset

Quality

The CL3300 series is a Grade 1 cylindrical lockset manufactured with the highest quality materials to ensure strength, durability and quiet operation. Available in all standard architectural finishes and three lever designs, the CL3300 series subtly complements any high-use commercial, industrial and institutional application.

Classroom Security

The CL3352 Classroom Intruder function is the solution to classroom security: a double cylinder lockset that allows locking of the outside lever from either side. Egress is always possible with the standard anti-panic feature, whether the door is locked or not. And because a key is needed to secure the door from either side, students cannot lock a teacher out of the classroom.

Vandal Resistance

Engineered to meet today's increased security needs, the CL3300 series offers several advantages. All functions feature the patented Lever Release design for vandal resistance, allowing the outside lever to rotate when in the locked position.

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30 Pond Park Road, Hingham, MA 02043

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PLEASE ROUTE TO MAINTENANCE/LOCKSMITH

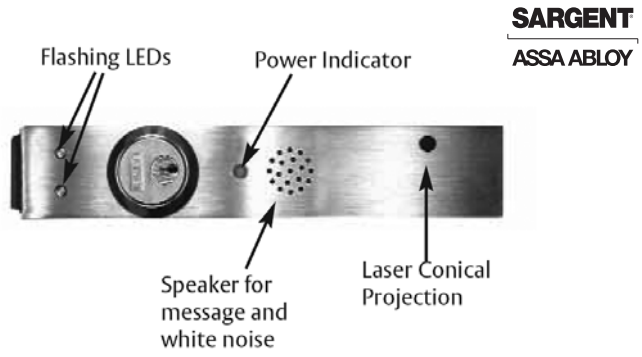
SARGENT Beacon™ 548 Retrofit Kit

SARGENT's next generation exit device is an amazing device that creates a clearer pathway to safety during an emergency by using a combination of audible and visible alerts. Connected to the building's alarm system, when activated Beacon emits a pulse of light and white noise followed by an audible message declaring "exit located here." A laser light beamed from the exit device forms an arrow shape pointing directly to the illuminated touch bar - allowing to locate the exit and get out quickly.

A retrofit kit with the 548-X designation is also available to upgrade existing 80 series installations. The 548 kits are available to suit devices with narrow or wide stiles and various rail lengths.

The same technique used to find the rail size on the ED56 kit (shown on the opposite page) can be applied to find the rail size for the Beacon 548 kit.

Kit #	Insert Kit Size
548-1	Mounting Rail Insert- “F” Wide
548-2	Mounting Rail Insert- “F” Narrow
548-3	Mounting Rail Insert- “G” Wide
548-4	Mounting Rail Insert- “G” Narrow
548-5	Mounting Rail Insert- “E” Wide
548-6	Mounting Rail Insert- “E” Narrow
548-7	Mounting Rail Insert- “J” Wide
548-8	Mounting Rail Insert - “J” Narrow



Rail Size	Type of Exit Device	Door Width No Cutting Required	Minimum Door Width Available
E	8900, 8800, 8700 & 8600	32” Door	32” Door
F		36” Door	35” Door
J		42” Door	38” Door
G		48” Door	44” Door
E	8500, 8400 & 8300	32” Door	29” Door
F		36” Door	33” Door
J		42” Door	36” Door
G		48” Door	42” Door

24 VDC power and fire alarm relay (2 wires) must be provided to the door.

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Technically Speaking

Determining the Rail Size & Compatibility for SARGENT's ED56 Retrofit Kit

SARGENT's 56-prefix Electric Latch Retraction exit device is the perfect choice for high traffic egress doors that require access control. Utilizing the latch retraction motor rather than a solenoid ensures a quiet and smooth operation with a low current draw. Upgrading existing SARGENT 80 series mechanical rails is effortless with the introduction of the ED56 retrofit kit.

To assure the correct kit has been ordered you will need to specify the rail size. This can be done by measuring the distance between pivots located on the sides of the push rail assembly and matching them up to rail sizes shown below.

Specify Rail Size (E, F, J & G)

To determine rail size measure pivot to pivot

- 8-1/2" = "E" Rail
- 11-1/4" = "F" Rail
- 14" = "J" Rail
- 20-1/2" = "G" Rail

Minimum insert length required for electronics

- For 56-: 5"
- For 56- with 16-: 7"

ED56 kit includes the following

- Motor, Bracket and Push Rail Assembly
- Mounting Fasteners
- Motor Controller
- Wire Harness

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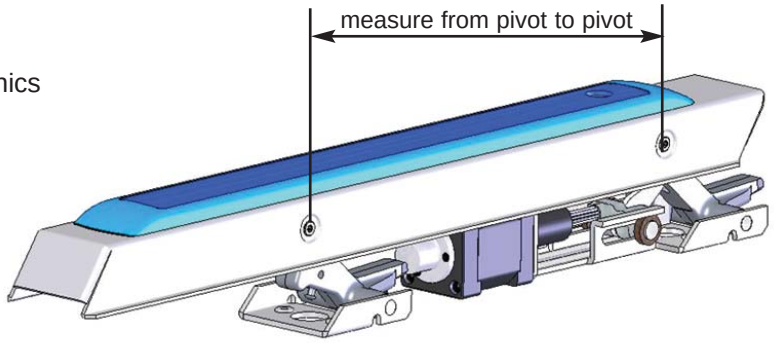
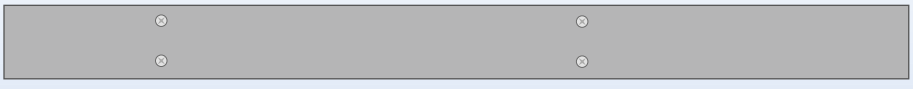
ASSA ABLOY



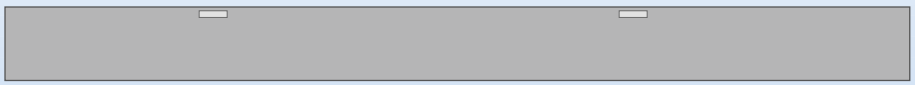
Push Rail Assembly

To determine if your exit can be modified with the retrofit kit check the bottom of the rail. Non-electrified rails (Manufactured after 1995) have screws located on the bottom and can be retrofited. Non-electrified rails with slots cannot be retrofited with the ED56 kit.



Bottom of rail with screws **can** be used with retrofit kit.

Bottom of rail with slots **cannot** be used with retrofit kit.



A kit is also available with the 55-prefix (request to exit) option. Example: 55 ED56 J 32D