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Touchless access solutions

Automatic operators, touchless
actuators and wireless transmitters



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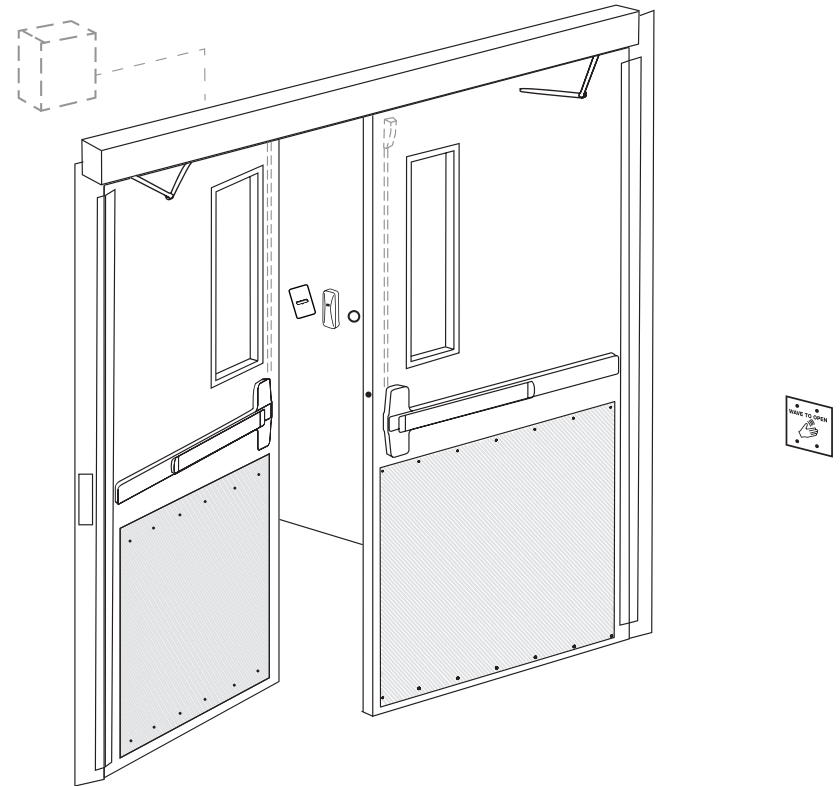


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Touchless access solutions

Many people are reexamining their daily routine with health and wellbeing in mind. They are reconsidering where they go, who they interact with and what they touch. Allegion offers touchless technology that plays a role in prevention by decreasing the number of surfaces pedestrians come in contact with. While there are several ways to accomplish touchless operation, pairing low energy automatic operators with actuators or readers is the most common.

Allegion takes the complexity out of specifying touchless access solutions by providing **wiring and riser diagrams** for common applications that show you how all the components of the solution work together.



Automatic operators

Automatic operators are key component in a touchless solution. They open the door electronically upon signal from an actuator, hold it open and then release it, allowing enough time for a pedestrian to pass through without touching the door.

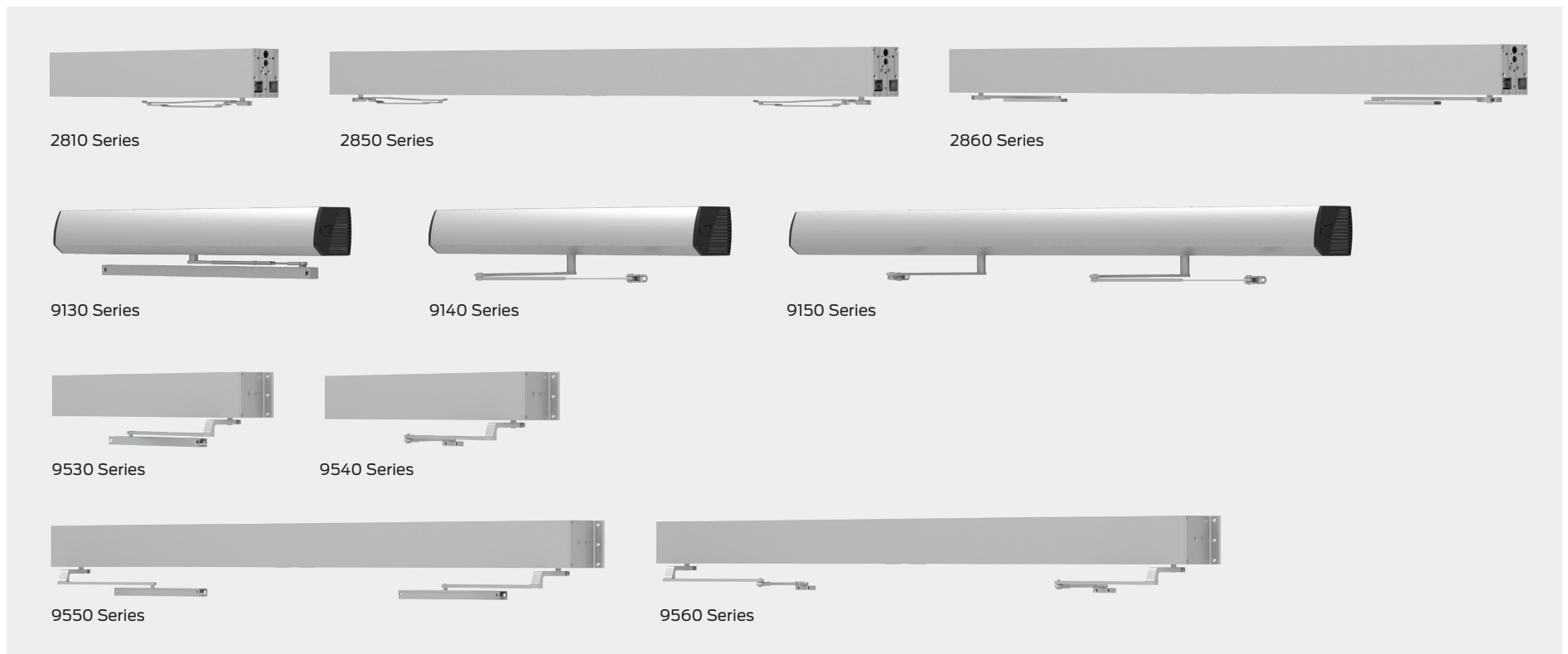
Electromechanical automatic operators

For applications where most pedestrians operate the door electronically, consider electromechanical automatic operators. These utilize a motor gearbox and control box to perform the opening and closing function. Upon receipt of an actuation signal, the motor drives the door open to 90°, where it is held for the programmed amount of time. Once the hold open time is complete, the motor releases its efforts and a spring drives the door shut to 0 latch. This design allows for reliable and consistent automatic actuation. Allegion electromechanical offerings are ANSI 156.19 and UL certified devices. They range in door leaf weight capabilities from 200 to 400 lb. for a variety of applications and needs.

Features:

- On-board power supply: Provides low voltage output from operator to power card readers, strikes, actuators and other peripherals
- Visual function indicators: Feedback LEDs or a digital screen guide the user through their interaction with the device

Automatic operators



Electromechanical low energy swing operators

Model	2810, 2850, 2860 Series	9130 Series	9530, 9550, 9560 Series	9140, 9150 Series	9540, 9550, 9650 Series	9550, 9560 Series
Application	Concealed mount	Surface mount, pull side	Surface mount, pull side	Surface mount, push side	Surface mount, push side	Surface mount, double egress
Family	Senior Swing	Benchmark	Senior Swing	Benchmark	Senior Swing	Senior Swing
Door weight	400 lb.*	200 lb.	400 lb.	200 lb.	400 lb.*	400 lb.*
Push and go	Yes	Yes	Yes	Yes	Yes	Yes
Power boost	Yes	Yes	Yes	Yes	Yes	Yes
Low voltage output	24V / 12V	24V	24V / 12V	24V	24V / 12V	24V / 12V

* Only up to 36" wide doors.

Actuators are a critical component for low energy swing devices in order to achieve ANSI 156.19 compliance. To promote health and well-being, many facilities are now replacing traditional push buttons with touchless actuators.

Heavy duty touchless actuators

The LCN 8310-810 series of stainless steel actuators are designed for high use and abuse environments.

Features:

- Flush mounted design: aesthetically pleasing and less susceptible to accidental damage
- Stainless steel construction: for rugged performance in harsh environments
- IP65 rated: to protect electronic components from water and cleaning liquids
- Customizable features: Visual and audible signaling

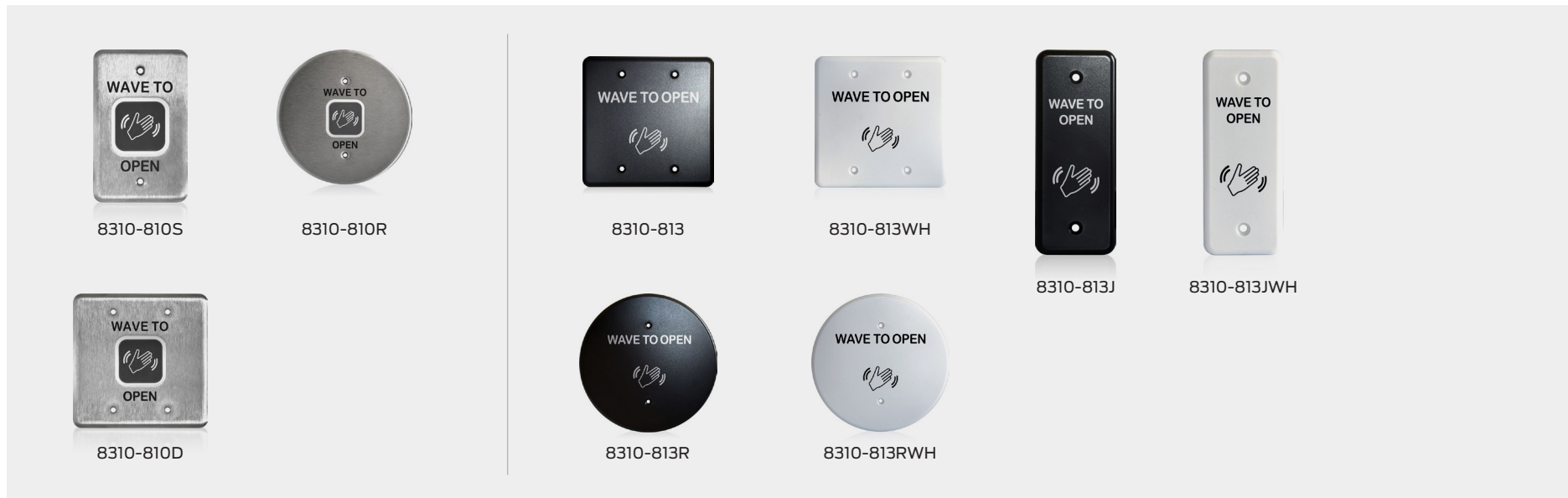
Standard touchless actuators

The LCN 8310-813 series of touchless actuators is designed for standard, medium-duty applications.

Features:

- Flush mounted design: aesthetically pleasing and less susceptible to accidental damage
- Silent activation: ideal for applications that seek to limit noise emission
- Variety of colors and form factors: available in black or white for single gang, double gang, jamb and round mounting styles
- Single and double gang face plates ship as pair

Touchless actuators



	Heavy duty touchless actuators			Standard touchless actuators							
Model	8310-810S	8310-810R	8310-810D	8310-813*	8310-813*	8310-813WH*	8310-813WH*	8310-813J	8310-813JWH	8310-813R	8310-813RWH
Description	Stainless steel single gang	Stainless steel round	Stainless steel double gang	Single gang - text and wave icon, black	Double gang - text and wave icon, black	Single gang - text and wave icon, white	Double gang - text and wave icon, white	Jamb - text and wave icon, black	Jamb - text and wave icon, white	Round - text and wave icon, black	Round - text and wave icon, white
Dimensions	2.75" x 4.5" x 0.98"	6" Dia x 0.98"	4.5" x 4.5" x 0.98"	2.75" x 4.5" x 0.75"	4.5" x 4.5" x 0.75"	2.75" x 4.5" x 0.75"	4.5" x 4.5" x 0.75"	1.68" x 0.75"	1.68" x 0.75"	6" Dia x 0.75"	6" Dia x 0.75"
Application	Interior/exterior (premium/heavy duty)			Interior/exterior (medium duty/base)							
Feedback	Visible/audible			None							
Range	2-24"			4-24"							
Hold time	1 - 30 sec			0.5 - 30 sec							
Power	Wired			Wired							
Actuation signal	Wired or 900 MHz Wireless			Wired or 900 MHz Wireless							

* Single and double gang face plates ship as pair.

Touchless actuators

Close proximity touchless actuators

The LCN 8310-816 Series of close-proximity actuators are ideal for high use and abuse environments.

Features:

- Short-range detection zone: reduces unwanted activation
- Flush mounted design: aesthetically pleasing and less susceptible to accidental damage
- Feedback: includes illuminated edges and audible signaling
- Learn cycle: simplifies setup



Harsh conditions touchless actuators

The LCN 8310-815 is designed for harsh environments.

Features:

- NEMA 4/IP65 rated enclosure: for rugged and durable performance
- Designed for harsh environments: including outdoor applications
- Customizable detection zone: for flexibility and ease of use

	Close proximity touchless actuators		Harsh conditions touchless actuators
Model	8310-816R	8310-816S	8310-815
Description	Round, text and wave icon	Square, text and wave icon	Surface Mount, text and wave icon
Dimensions	7"W x 7"H x 1.4" D	5.7"W x 5.7" H x 1.2"D	3.1" W x 3.2" H x 2.2" D
Application	Interior/exterior		Interior/exterior
Feedback	Visible/audible		None
Range	0-4"		4-24"
Hold time	N/A		0.5 sec
Power	Wired		Wired
Actuation signal	Wired		Wired or 900 mHz wireless

Transmitters

900 mHz receiver and transmitters

The LCN 8310-880 is a compact, long-range transmitter that complies with federal radio frequency regulations. The power draw of 30mA (transmitter) / 40mA (receiver) allows for greater distance transmission. The 900 mHz transmitter is compatible with LCN's touchless actuation offerings. Without this solution, all touchless actuation plates will need to be hardwired into the operators' actuation inputs.

Features:

- Multi-color LEDs on receiver: for visual notification of signal strength and activation status
- Frequency hopping: for consistent transmission in areas with other 900 mHz devices
- Personalized options: for actuation with handheld transmitters
- Learn modes: for door sequencing
- Multiple door actuation capabilities: per transmitter
- 900MHz receiver: can be programmed with up to 74 transmitters simultaneously

Model	Description
8310-880	900 mHz receiver
8310-881	Handheld transmitters - 1 button
8310-882	Handheld transmitters - 2 button
8310-883	Handheld transmitters - 3 button
8310-884	Handheld transmitters - 4 button
8310-885	Retrofit transmitter ¹
8310-886	Hardwired transmitter ²

1. Despite allowing for a wireless actuation, the retrofit transmitter does require a power draw via wire.
 2. Recommended use with pushbuttons.



Touchless actuators

Auxiliary hardware that can be powered off an automatic operator

Two touchless actuators

Model	8310-810	8310-813	8310-815	8310-816
Senior Swing	Yes	Yes	Yes	Yes
Benchmark	Yes	Yes	Yes	Yes
Falcon	No	Yes*	Yes	Yes

Two touchless actuators and a receiver

Model	8310-810	8310-813	8310-815	8310-816
Senior Swing	Yes	Yes	Yes	N/A
Benchmark	Yes	Yes	Yes	N/A
Falcon	No	No	Yes*	N/A

Two touchless actuators, a receiver and a retrofit transmitter

Model	8310-810	8310-813	8310-815	8310-816
Senior Swing	Yes	Yes	Yes	N/A
Benchmark	Yes	Yes	Yes	N/A
Falcon	No	No	No	N/A

* Very close to capacity.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in seamless access, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion secures people and assets with a range of solutions for homes, businesses, schools and institutions. Allegion had \$2.7 billion in revenue in 2018, and sells products in almost 130 countries.

For more, visit www.allegion.com.

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