



Hand-E-Wave™ Touchless Switches

Hand-E-Wave™ is an advanced touchless switch with 24GHz Doppler Radar technology. Ideal for use in healthcare facilities, Hand-E-Wave's touchless switch activation helps reduce the spread of viruses, bacteria and infectious diseases commonly found on mechanical push plates. Hand-E-Wave utilizes bidirectional motion detection which provides reliable and consistent switch operation. Visual and audio (ON/OFF) feedback indicate when motion is detected within the detection zone. Aesthetically designed, Hand-E-Wave's low profile and ruggedized construction make it easy to clean and sanitize.

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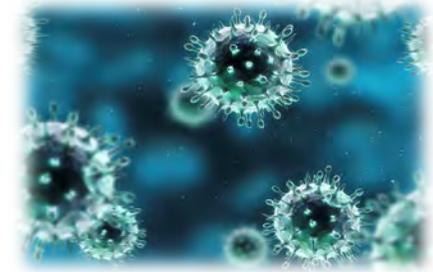


Made in the USA



Specifically Designed for Healthcare Facilities

The original Hand-E-Wave™ was developed in 2013 prior to the Ebola Virus outbreak. It was designed to provide healthcare facilities a means to help protect patients, visitors and employees from the risk of spreading germs including HAI's (Healthcare Associated Infections). Patient infections can impede the healing process with potentially detrimental outcomes.



Eighty percent of common infections are spread by hands (BC Centre for Disease Control, 2021). Hand-E-Wave's touchless activation used with an automatic door operator eliminates the need for healthcare professionals to touch doorknobs, door handles or mechanical push plates. Utilizing low power, microwave radar technology provides precise identification of motion which translates to a highly dependable means of activating automatic doors without physical touch.



Reducing physical touch points within a healthcare facility is a component of a comprehensive HAI minimalization program. Additionally, the CDC recommends limiting contact with commonly touched surfaces to reduce the spread of COVID-19. Hand-E-Wave reduces cross contamination from previously touched door hardware to move staff, visitors and patients swiftly and safely within a healthcare facility.

Premium Touchless Solution



HEWMO-1

Hand-E-Wave™ features advanced 24GHz Doppler Radar Technology. Unlike infrared and capacitive touchless devices, Hand-E-Wave utilizes bidirectional microwave motion detection which provides reliable and consistent switch activation.

Hand-E-Wave's detection zone can be adjusted from 2 to 24 inches. A moving hand, cart, wheelchair or gurney within the detection zone activates the switch. Hand-E-Wave's output is field selectable for either a 1 to 30 second relay hold time or toggle (on/off) operation.

An optional manual override is available for emergency egress doors. This option adds a manual override button with a timed 0.5 to 60 second output and fail safe to the normally closed contacts.



What is innovative and unique about Hand-E-Wave?

Hand-E-Wave™ features 24GHz Doppler Radar technology which provides a precise means of sensor detection and switch activation. This unique detection method utilizes a low power, bidirectional microwave motion sensor. Other touchless devices using infrared detection are susceptible to interference from many materials (i.e., tape, black marker or chewing gum) or false triggering from flashes of light. These external factors can cause inconsistent operation of the touchless device. Hand-E-Wave reads through these types of material and it is unaffected by light.



Common touchless switches have a fixed or limited detection zone. Hand-E-Wave's detection zone can be adjusted up to 24 inches. This allow for greater flexibility to configure Hand-E-Wave for different touchless requirements. Access into a surgical suite is typically set to a few inches to prevent unintended switch activation. Access for a common hallway door may be set to a longer range to detect people walking by and carts moving through the detection zone. Capacitive touchless devices have a very short fixed detection range. They are also susceptible to noise or may be falsely triggered by ionized smoke.

Hand-E-Wave's low-profile design makes it easy to clean and sanitize. The faceplate is constructed of 1/8" 304 stainless steel which can be white or black powder coated to support architectural continuity of door access hardware within the facility. In a healthcare environment where hospital gurneys and rolling trash bins are used, Hand-E-Wave's recessed mounting can help reduce maintenance costs caused by accidental damage to the activation device.

Go Touchless

Hand-E-Wave was completely redesigned in 2020 with upgraded features and faceplate finishes. Available in jamb, single or double gang with a black, white or stainless steel finish.



HEW-1B



HEW-2W



HEW-3S



Key Features

- ✓ Vandal and ligature resistant
- ✓ Adjustable 2 to 24" detection zone
- ✓ Visual (blue to green) and selectable On/Off audio feedback
- ✓ Optional manual override for emergency egress



HEWMO-2



Key Benefits

- ✓ Reduces the spread of HAI's
- ✓ Easy to clean and sanitize
- ✓ Rugged low profile design
- ✓ Proudly made in the USA



How does Hand-E-Wave contribute to quality of care?

COVID's impact on normal day to day activities in public environments has increased everyone's concern and awareness for touching surfaces including door hardware. By limiting physical touch points in healthcare facilities, patients, staff and visitors will experience a cleaner and safer environment with a reduction of HAI's. Using Hand-E-Wave to activate an automatic door opener, provides a touchless solution which indicates quality of care within the facility.



Hand-E-Wave can be customized with corporate healthcare logos and text. This option supports healthcare branding and communicates compliance with using a touchless door access solution. The primary objective is to encourage positive patient experience and feedback with potential financial benefits for the healthcare facility.

Additional Hand-E-Wave Qualities

Hand-E-Wave switches are designed to provide years of reliable touchless access with maintenance free operation. The ruggedized, ligature resistant construction incorporates an 1/8" stainless steel faceplate with optional white or black powder coat finish. The faceplate and acrylic lens can be cleaned and sanitized more thoroughly and safely than common push plates. Mechanical push plates are susceptible to shortened life due to their moving parts and surface mount installation.

Hand-E-Wave™ is proudly Made in the USA by Essex Electronics, a leading manufacturer of ruggedized access control solutions. The aesthetic design of Hand-E-Wave is complementary to a family of access control products. Hand-E-Wave touchless switches used in conjunction with Essex iRox™ Series access control card readers are designed to support architectural continuity within a facility.

Essex Electronics, Inc.
1-800-KEYLESS
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**Ligature
Resistant**



HEW-2W



IRX-1B