



# MS21H Series Magic Switch



## MS21H Touchless Solutions Performance Series

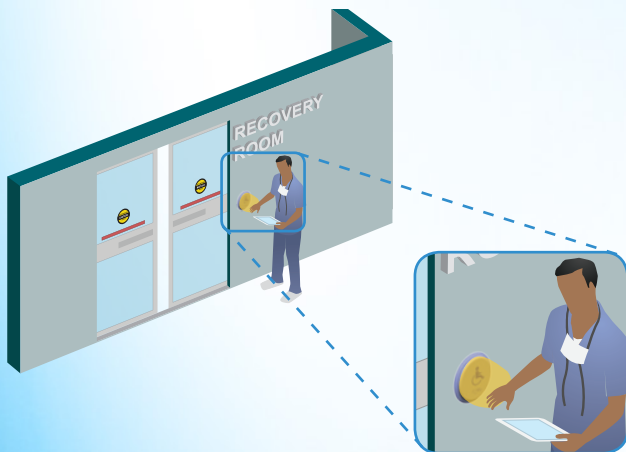
- Touchless design reduces spread of bacteria, disease and contamination
- LED illumination increases plate visibility
- Stainless steel faceplate improves durability and reduces deterioration caused by liquids and other cleaning agents
- Low profile, beveled design reduces accidental damage from errant objects like carts or hospital beds
- Various design options available to match any application
- Audible alert can be turned on or off to signal activation
- Adjustable detection zone provides added levels of customization

*Wave Goodbye to Germs  
Say Hello to Touchless Activation*

The MS21 is a state-of-the-art touchless activation plate that utilizes capacitance technology to detect and trigger activation in automatic doors. The low profile, hands-free MS21 includes a stainless steel faceplate and illuminated LED mounting ring for maximum durability and visibility. Other innovative features include adjustable detection zones, audible alerts, NEMA 4-rated enclosure and customizable faceplate text and logos.

The MS21 combines form and function into an aesthetically pleasing design that is ideal for healthcare facilities, clean rooms, washdown areas and a variety of other applications.

## Touchless Solution Eliminates Spread of Germs



## MS21H Series



10MS21HR1  
6" Round  
Text & Logo



10MS21HR  
6" Round  
Text ONLY



10MS21HRL  
6" Round  
Logo ONLY



10MS21HS1  
4 3/4" Square  
Text & Logo



10MS21HS  
4 3/4" Square  
Text ONLY



10MS21HSL  
4 3/4" Square  
Logo ONLY

# MS21H Series Magic Switch

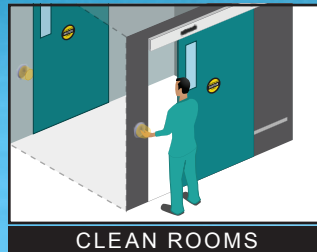
West: 800-544-4422 • East: 800-225-6737

## Detection Settings



## Applications

- Hospitals and Healthcare Facilities
- Clean Rooms
- Colleges and Universities
- Elder-care Facilities
- Professional Buildings
- Retail

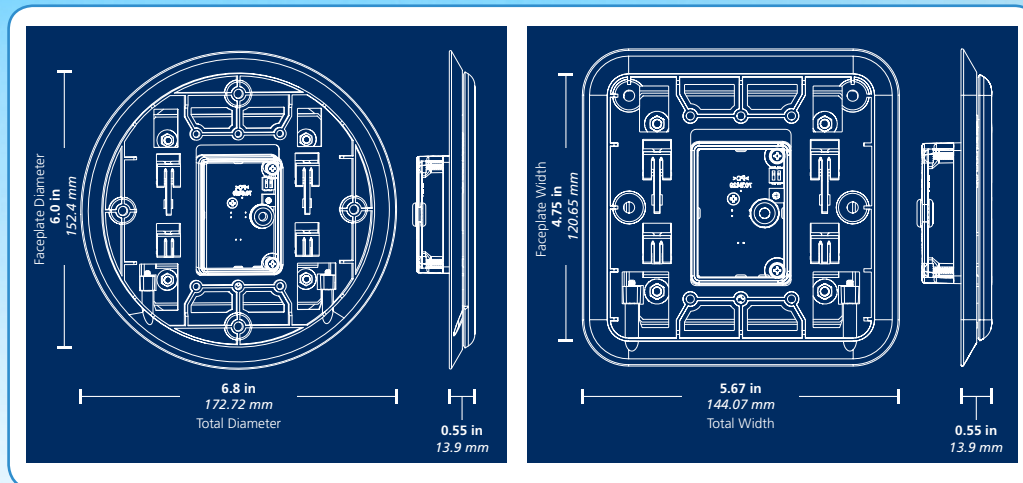


## Technical Specifications

Technology Type	Knowing Act / Capacitance Technology
Detection Mode	Capacitance / Proximity
Supply Voltage	12 to 24 VAC / VDC; ±10%
Current Consumption	30 mA
Temperature Range	-20°F to +120°F
Degree of Protection	NEMA 4
Sensing Zone	Maximum sensing zone will vary depending on the following: Size (area) of an object   orientation of an object   speed of an object   environmental conditions
Relay	1 Form A solid-state relay; 0.4 A, 60 VAC / VDC
Cable Length	10 inches (5 conductor)
Material	Stainless Steel (faceplate) Clear Polycarbonate (Mounting Ring and Backplate Enclosure)

Specifications are subject to change without prior notice.

## Dimension Details



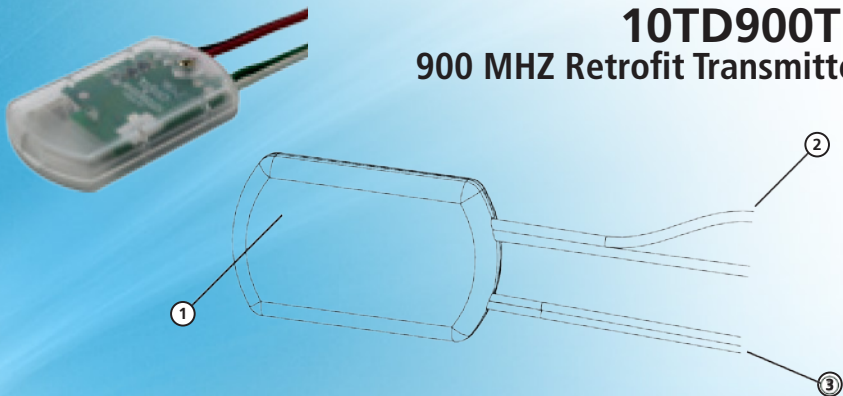
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# 10TD900TR 900 MHz Retrofit Transmitter



### Ideal For Harsh Environment

1. 900 MHz Wireless Transmitter
2. White and Green Activation Wires
3. Red and Black Power Wires

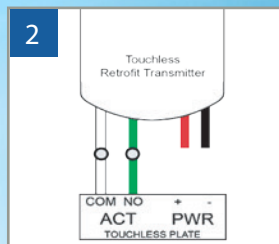
### Precautions

- Shut off all power going to header before attempting any wiring procedures.
- Maintain a clean and safe environment when working in public areas.
- Constantly be aware of pedestrian traffic around the door area.
- Always stop pedestrian traffic through the doorway when performing tests that may result in unexpected reactions by the door.
- ESD (electrostatic discharge): Circuit boards are vulnerable to damage by electrostatic discharge. Before handling any board, ensure you dissipate your body's ESD charge.
- Always check placement of all wiring before powering up to ensure that moving door parts will not catch any wires and cause damage to equipment.
- Ensure compliance with all applicable safety standards (i.e. ANSI A156.10) upon completion of installation.
- DO NOT attempt any internal repair of the components. All repairs and/or component replacements must be performed by BEA, Inc. Unauthorized disassembly or repair:
  1. May jeopardize personal safety and may expose one to the risk of electrical shock.
  2. May adversely affect the safe and reliable performance of the product resulting in a voided warranty.

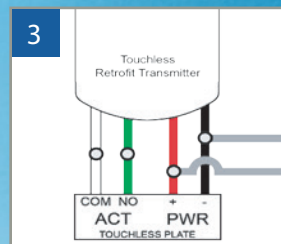
In most applications for existing hard-wired touch push plates, only two (2) wires are installed which run within the wall from the push plate to the door control for activation. The 900 MHz Touchless Retrofit Transmitter allows an existing, hard-wired, touch push plate to be retrofitted with a new touchless plate that requires four (4) wires (2 wires for power and 2 wires for activation) without running additional wires. This is achieved by use of a powered wireless transmitter and wireless receiver.



1 Remove existing touch push plate and disconnect the two (2) existing in-wall wires from the push plate and door control activation.



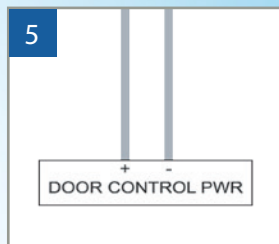
2 Connect the green and white wires to the new touchless plate activation output.



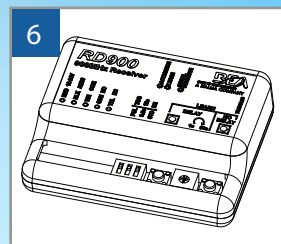
3 Parallel the red and black wires with the two (2) existing in-wall wires and connect them to the new touchless plate power input.



4 Mount new touchless plate.



5 Connect the two (2) existing in-wall wires to the power source in the door control header.



6 Install the 900 MHz wireless receiver in the header (sold separately).

### Technical Specifications

Power	12 – 24 VAC/VDC ±10%
Transmitter Frequency	908 – 918 MHz (frequency hopping)
Emitted radio power	-25 dBm
Power consumption	22 mA
Temperature range	14 – 131 °F (-10 – 55 °C)
LEDs	Red (activation)
Dimensions:	1.72" (L) x 1.06" (W) x 0.32" (T)
Material	ABS Plastic
Certification	FCC, IC