



# MZE<sup>®</sup>

## Door Controls



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## Door Controls

**TOUGH BUILDS**

**FAST INSTALLS**

**SMART CONTROL**



### MZE DOOR CONTROLS

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#### DISCLAIMER

- \* Product performance is subject to the physical space, the picture is for reference only.
- \* Brochures are for reference only when purchasing products. In case of text proofreading or descriptive errors, the company's business or dealer confirmation shall prevail.

## THE PRO INSTALLER'S CHOICE

# MZE<sup>®</sup>

## Door Controls

MZE is an independent brand under CSE, dedicated to high-quality door control hardware.

Founded in **2008** and based in **Shenzhen**, China, MZE combines CSE's strong R&D and manufacturing expertise to deliver dependable solutions for access control and automatic door systems.

Our product range includes **electric strikes, access control systems, push switches, touch-free switches and accessibility systems**—all engineered for safe, barrier-free operation. MZE products are trusted by partners and installers in over **50 countries** worldwide.



RoHS

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## WB25B, WB30B & WB55B Touch-Free Wave Switches



### Features

- Adjustable sensor detection range from 4" to 5" (10 to 13 cm)
- Wide voltage input range: auto-adapts to 12/24V DC ±12%
- LED ring in default blue, switches to green upon activation
- IP65-rated weather and water resistance
- Narrow, single-gang, and double-gang stainless steel faceplates available
- Durable laser-etched graphics, resistant to wear and cleaning chemicals
- (1) Form 'C' contact rated at 3A @ 30 VDC, 3A @ 250VAC

Touch-Free Switch series (WB55B, WB30B, WB25B) helps prevent the spread of germs by enabling contactless activation, offering superior performance and reliable operation in demanding environments.

Designed for both interior and exterior installations, these switches are ideal for automatic doors and access control systems.

Touch-Free Switches feature quick and simple installation, and are built for long-term durability in high-traffic locations.

WB55B, WB30B & WB25B Series switches are Available in a wide range of models with narrow, single-gang and double-gang stainless steel faceplates to suit various applications.



### SPECIFICATIONS

OPERATING VOLTAGE: - 12 - 24 VDC ± 12% (Auto-adapting) - FILTERED, REGULATED DC POWER SUPPLY REQUIRED - CONNECTION OF AC OR DC VOLTAGE ABOVE SPECIFIED RANGE VOIDS	RESPONSE TIME: ≤10ms TEMPERATURE RANGE: 14°F to 122°F (-10°C to +50°C) CONTACT RATING: 3 A @ 30 VDC, 3A @ 250VAC CONTACTS: Form 'C' – COMMON / N.O. / N.C.
WARRANTY CURRENT DRAW: 50 mA (PEAK)	

SERIES	FLUSH MOUNT	SURFACE MOUNT
Touch-Free Series	<b>WB25</b> Touch-Free Wave Switch, Narrow (Jamb)	<b>WB25B</b> Touch-Free Wave Switch Narrow (Jamb), Including Surface Mounting Box 25B.
	<b>WB30</b> Touch-Free Wave Switch, Single Gang	<b>WB30B</b> Touch-Free Wave Switch Single Gang, Including Surface Mounting Box 30B.
	<b>WB55</b> Touch-Free Wave Switch, Double Gang	<b>WB55B</b> Touch-Free Wave Switch Double Gang, Including Surface Mounting Box 55B.

### SURFACE MOUNT BOX

#### Mounting Box 25B

- Flame-retardant
- Impact-resistant ABS polymer
- 46.5 X 117.4 X 44.3 mm



#### Mounting Box 30B

- Flame-retardant
- Impact-resistant ABS polymer
- 117.4 X 73 X 44.3 mm



#### Mounting Box 55B

- Flame-retardant
- Impact-resistant ABS polymer
- 127.5 X 127.5 X 50.53mm



### WIRELESS SOLUTION

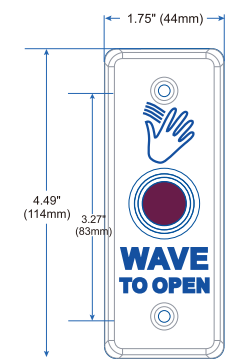
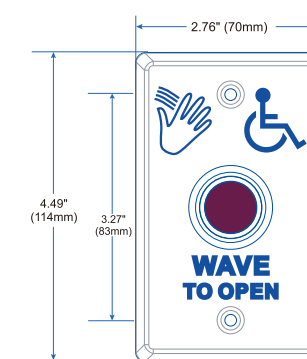
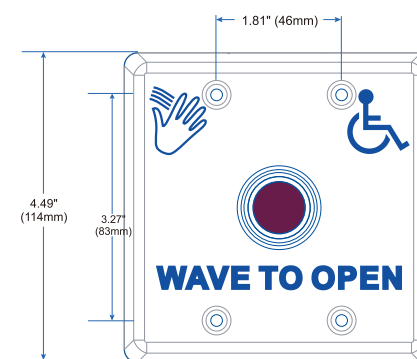
#### Wireless Transmitter / Dual Relay Receiver

- WT01 Transmitter: **2-year Battery Life**, Using AAA Batteries
- WR12 Receiver: **Dual-relay** supports 2 independent channels for flexible control



WT01 WR12

### SWITCHES DIMENSIONS



# WB2501B & WB5501B Wireless Touch-Free Wave Switches



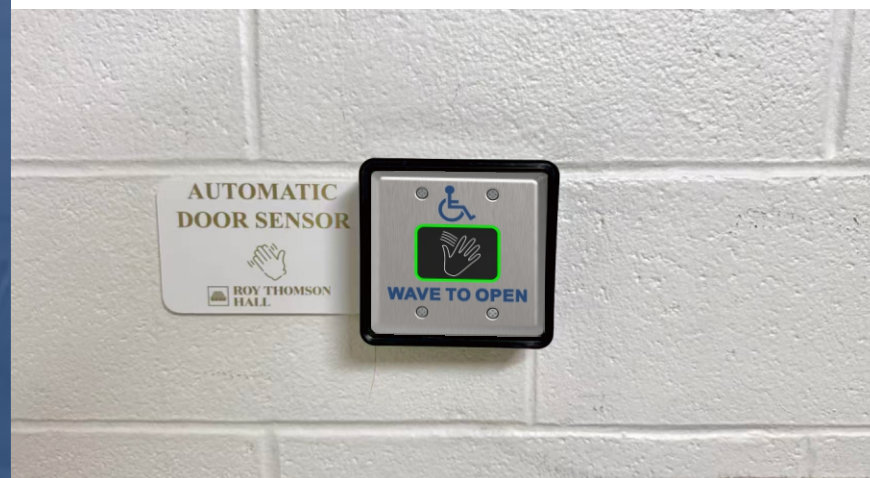
### Features

- Adjustable sensor detection range from 3" to 26" (7 to 66 cm)
- Wide voltage input range: auto-adapts to 12/24V DC ±12% or battery powered
- Illuminated LED ring in green, activated on swipe
- Weather and water resistant, rated IP65 Available in narrow and double-gang stainless steel faceplates
- Laser-etched graphics, resistant to wear and cleaning agents
- (1) Form 'C' contact rated at 1A @ 30 VDC

MZE Wireless Touch-Free Switches offer a modern and reliable solution for contactless door activation. They combine hygiene, convenience, and dependable wireless performance, making them ideal for a wide range of applications.

Powered by battery or external 12/24V AC/DC, these wireless models provide flexible installation without cabling.

Adjustable sensor range and delay timing ensure smooth, stable operation in all lighting conditions, both indoors and outdoors.



### SPECIFICATIONS

OPERATING VOLTAGE: - 12 - 24 VDC ± 12% (Auto-adapting)	RESPONSE TIME: ≤10ms
- FILTERED, REGULATED DC POWER SUPPLY REQUIRED	TEMPERATURE RANGE: 14°F to 122°F (-10°C to +50°C)
- CONNECTION OF AC OR DC VOLTAGE ABOVE SPECIFIED RANGE VOIDS	CONTACT RATING: 1 AMP @ 30 VDC
WARRANTY CURRENT DRAW: 60 mA (PEAK)	CONTACTS: Form 'C' – COMMON / N.O. / N.C.

SERIES	FLUSH MOUNT	SURFACE MOUNT
Touch-Free Series	<b>WB2501</b> Wireless Touch-Free Wave Switch, Narrow (Jamb)	<b>WB2501B</b> Wireless Touch-Free Wave Switch Narrow (Jamb), Including Surface Mounting Box 25B.
	<b>WB5501</b> Wireless Touch-Free Wave Switch, Double Gang.	<b>WB5501B</b> Wireless Touch-Free Wave Switch Double Gang, Including Surface Mounting Box 55B.

### DUAL RELAY RECEIVER

**WR12 Receiver**  
- Six operating modes  
- Dual-relay supports 2 independent channels for flexible control



WR12

### SURFACE MOUNT BOX

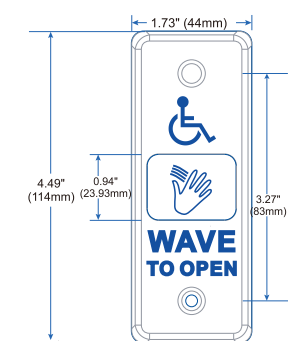
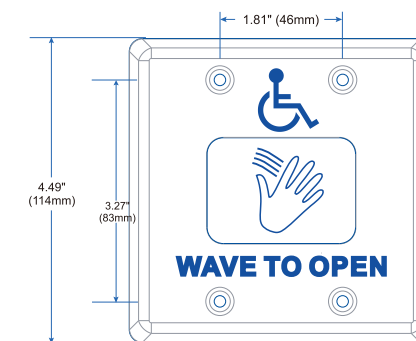
**Mounting Box 25B**  
- Flame-retardant  
- Impact-resistant ABS polymer  
- 46.5 X 117.4 X 44.3 mm



**Mounting Box 55B**  
- Flame-retardant  
- Impact-resistant ABS polymer  
- 127.5 X 127.5 X 50.53mm



### SWITCHES DIMENSIONS



## PB25B & PB55B Push Switches



PB55B and PB25B Series all-active push switches are heavy-duty, designed for reliable performance in commercial and institutional environments. The faceplate are constructed from brushed stainless steel, suit diverse installation needs.

Both models are compatible with standard single-gang or double-gang electrical boxes. The Push Switch series is supplied as a complete unit—preassembled for fast mounting to in-wall or surface-mount boxes using tamper-resistant Allen screws and included hex key. All mounting screws are accessed from the front of the faceplate, maintaining a clean, vandal-resistant appearance.

The Push Switch series offers a modular two-piece design. The rear assembly mounts to the electrical box, while the front faceplate is secured afterward using standard or security screws (included in kit). This approach allows for easier maintenance or replacement in the field.

### Features

- Large, easy-to-activate push buttons
- All-active switch design with low actuation force
- Barrier-free access
- IP65-rated weather and water resistance
- PB55B and PB25B models feature stainless steel construction
- Available in flush mount or surface mount configurations
- Certified switch rated at 15A @ 250VAC/DC
- Available with standard wheelchair accessibility symbols



### SPECIFICATIONS

OPERATING VOLTAGE: - 12 - 24 VDC ± 12% (Auto-adapting) - FILTERED, REGULATED DC POWER SUPPLY REQUIRED - CONNECTION OF AC OR DC VOLTAGE ABOVE SPECIFIED RANGE VOIDS	RESPONSE TIME: ≤10ms TEMPERATURE RANGE: 14°F to 122°F (-10°C to +50°C) CONTACT RATING: 15 AMP @ 250 VAC/DC CONTACTS: Form 'C' – COMMON / N.O. / N.C.
WARRANTY CURRENT DRAW: -	

SERIES	FLUSH MOUNT	SURFACE MOUNT
Push Switch Series	PB25 Push Switch, Narrow (Jamb)	PB25B Push Switch Narrow (Jamb), Including Surface Mounting Box 25B.
	PB55 Push Switch, Double Gang	PB55B Push Switch Double Gang, Including Surface Mounting Box 55B.

### SURFACE MOUNT BOX

#### Mounting Box 25B

- Flame-retardant
- Impact-resistant ABS polymer
- 46.5 X 117.4 X 44.3 mm



#### Mounting Box 30B

- Flame-retardant
- Impact-resistant ABS polymer
- 117.4 X 73 X 44.3 mm



#### Mounting Box 55B

- Flame-retardant
- Impact-resistant ABS polymer
- 127.5 X 127.5 X 50.53mm



### WIRELESS SOLUTION

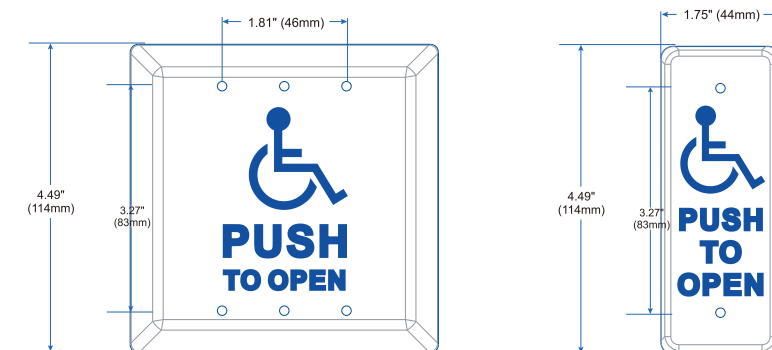
#### Wireless Transmitter / Dual Relay Receiver

- WT01 Transmitter: **2-year Battery Life**, Using AAA Batteries
- WR12 Receiver: **Dual-relay** supports 2 independent channels for flexible control



WT01 WR12

### SWITCHES DIMENSIONS



## PB2B, PB3B & PB5B Push/Exit Switches



MZE PB5B, PB3B, and PB2B are push switches designed for high visibility, weather resistance, and vandal-proof performance. These units feature rugged stainless steel faceplate.

The PB3B is standard single-gang width (2-3/4"), while the PB2B offers a narrower 1-3/4" form factor, ideal for door frames or tight spaces. Each model features a large 1" diameter button that is easy to operate, powered by a wide 12 to 24VDC input range.

Output contacts are field-selectable for N/O, N/C and fail safe/fail secure operation, providing flexible integration with access control or door automation systems.

### Features

- Double-gang , Single-gang and narrow faceplate designs for flexible installation
- N/O and N/C outputs
- Fail safe / Fail Secure Operation
- 12/24VDC wide voltage input
- Heavy-duty stainless steel faceplate, vandal-resistant construction



### SPECIFICATIONS

OPERATING VOLTAGE: - 12 - 24 VDC ± 12% (Auto-adapting) - FILTERED, REGULATED DC POWER SUPPLY REQUIRED - CONNECTION OF AC OR DC VOLTAGE ABOVE SPECIFIED RANGE VOIDS	RESPONSE TIME: ≤10ms TEMPERATURE RANGE: 14°F to 122°F (-10°C to +50°C) CONTACT RATING: 2 A @ 36 VDC, 3 A @ 220VAC CONTACTS: Form 'C' – COMMON / N.O. / N.C.
WARRANTY CURRENT DRAW: 30 mA (PEAK)	

SERIES	FLUSH MOUNT	SURFACE MOUNT
Push/Exit Switch Series	<b>PB2</b> Push/Exit Switch, Narrow (Jamb)	<b>PB2B</b> Push/Exit Switch Narrow (Jamb), Including Surface Mounting Box 25B.
	<b>PB3</b> Push/Exit Switch, Single Gang	<b>PB3B</b> Push/Exit Switch Single Gang, Including Surface Mounting Box 30B.
	<b>PB5</b> Push/Exit Switch, Double Gang	<b>PB5B</b> Push/Exit Switch Double Gang, Including Surface Mounting Box 55B.

### SURFACE MOUNT BOX

#### Mounting Box 25B

- Flame-retardant
- Impact-resistant ABS polymer
- 46.5 X 117.4 X 44.3 mm



#### Mounting Box 30B

- Flame-retardant
- Impact-resistant ABS polymer
- 117.4 X 73 X 44.3 mm



#### Mounting Box 55B

- Flame-retardant
- Impact-resistant ABS polymer
- 127.5 X 127.5 X 50.53mm



### WIRELESS SOLUTION

#### Wireless Transmitter / Dual Relay Receiver

- WT01 Transmitter: **2-year**

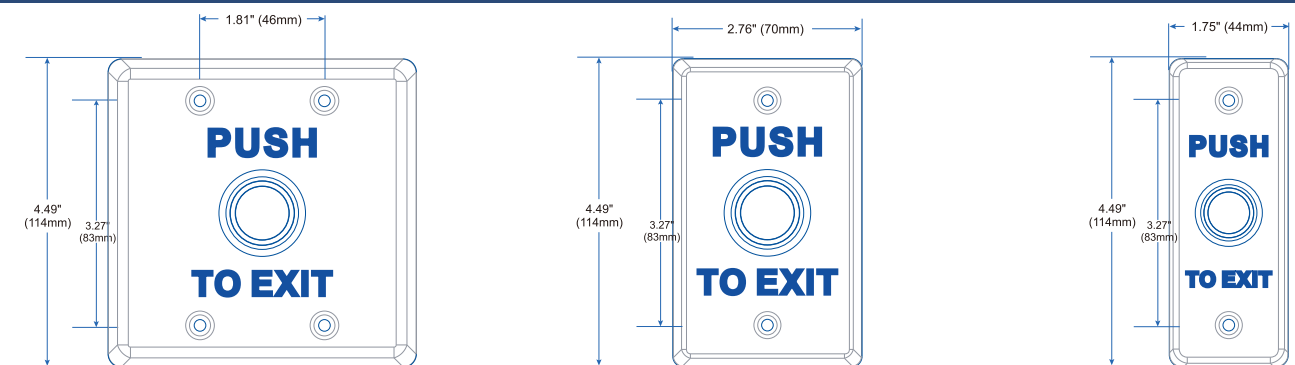
**Battery Life**, Using AAA Batteries

- WR12 Receiver: **Dual-relay** supports 2 independent channels for flexible control

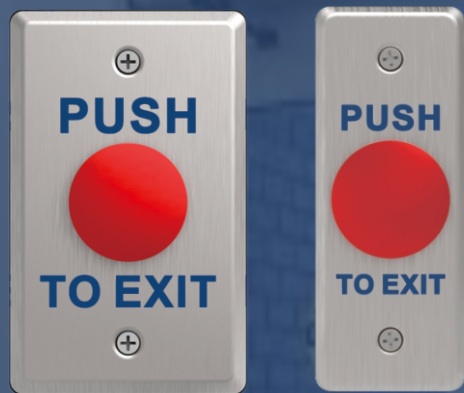


WT01 WR12

### SWITCHES DIMENSIONS



## MRB201B & MRB301B Mushroom Push Switches



MRB301B and MRB201B are heavy-duty push switches engineered for high-demand access control applications in public and commercial spaces.

Available in vibrant red actuator caps with a large 1-5/8" diameter, these switches feature a robust 1/4" thick aluminum faceplate for long-lasting durability.

The MRB301B is standard single-gang width (4-1/2") while the MRB201B is compact narrow-width (1-3/4"), making it suitable for door frames or tight installation areas. The bayonet-style interlocking mechanism allows too-free front assembly without set screws, simplifying installation and maintenance.

Switches are modular and support spring return operation.

### Features

- Large, easy-to-activate buttons with red color
- 1 11/32" (34mm) diameter actuator
- Compliant for accessible installations
- Constructed with 1/4" thick brushed aluminum faceplate
- Available in single-gang (4-1/2") and narrow (1-3/4") widths
- Suitable for indoor and outdoor environments
- Flexible mounting: Door Frame, Wall or pedestal
- Spring Return to release
- Stackable contact blocks support up to 6 functions
- Certified for 2 A @ 36 VDC, 3A @220VAC



### SPECIFICATIONS

OPERATING VOLTAGE: - 12 - 24 VDC ± 12% (Auto-adapting) - FILTERED, REGULATED DC POWER SUPPLY REQUIRED - CONNECTION OF AC OR DC VOLTAGE ABOVE SPECIFIED RANGE VOIDS	RESPONSE TIME: ≤10ms TEMPERATURE RANGE: 14°F to 122°F (-10°C to +50°C) CONTACT RATING: 2 A @ 36 VDC, 3 A @ 220VAC CONTACTS: Form 'C' – COMMON / N.O. / N.C.
WARRANTY CURRENT DRAW: -	

SERIES	FLUSH MOUNT	SURFACE MOUNT
Mushroom Push Switch Series	MRB201 Push Switch, Narrow (Jamb)	MRB201B Push Switch Narrow (Jamb), Including Surface Mounting Box 25B.
	MRB301 Push Switch, Single Gang	MRB301B Push Switch Single Gang, Including Surface Mounting Box 30B.

### WIRELESS SOLUTION

**Wireless Transmitter / Dual Relay Receiver**  
- WT01 Transmitter: 2-year Battery Life, Using AAA Batteries  
- WR12 Receiver: Dual-relay supports 2 independent channels for flexible control



WT01 WR12

### SURFACE MOUNT BOX

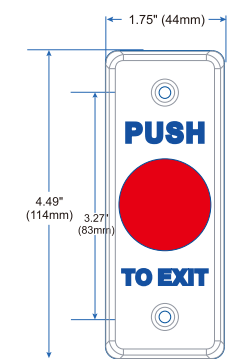
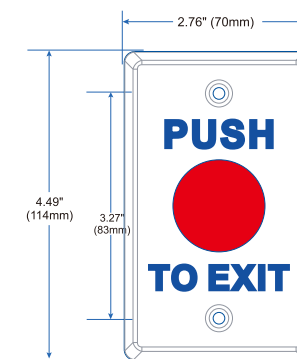
**Mounting Box 25B**  
- Flame-retardant  
- Impact-resistant ABS polymer  
- 46.5 X 117.4 X 44.3 mm



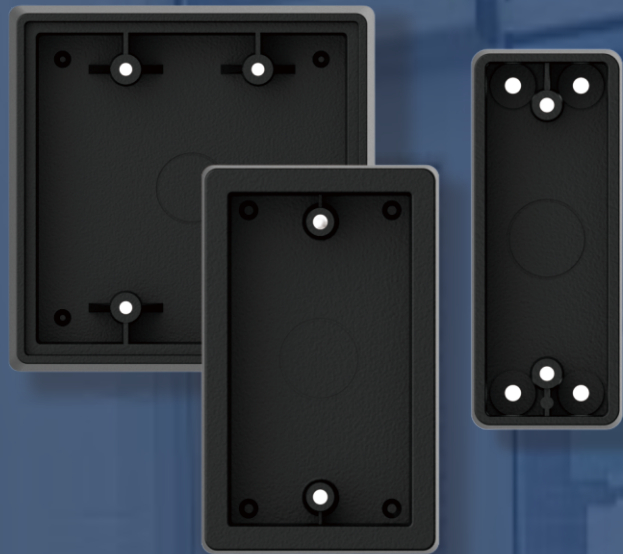
**Mounting Box 30B**  
- Flame-retardant  
- Impact-resistant ABS polymer  
- 117.4 X 73 X 44.3 mm



### SWITCHES DIMENSIONS



## 25B, 30B & 55B Enclosures and Mounting Boxes



### Features

- Compatible with a wide range of MZE surface-mount and flush-mount back boxes, trim rings, and cover plates
- Models available in flame-retardant and impact-resistant ABS plastic
- Designed for surface or flush mounting, suitable for indoor, outdoor, and water-resistant applications
- Offered in heavy-gauge stainless steel and anodized aluminum enclosures
- Available for single-gang, double-gang, and narrow faceplate configurations to match PB55B, PB30B, and PB25B models

MZE Mounting Solutions offers a comprehensive selection of ABS and metal mounting boxes, enclosures, and trim rings designed for flush, semi-flush, and surface-mounted installations.

The ABS plastic models are flame-retardant, impact-resistant, and provide excellent durability for both indoor and outdoor applications.

These enclosures are especially ideal for use with MZE wireless push button systems, ensuring reliable performance and vandal resistance in demanding environments.

	MOUNTING BOX 25B	MOUNTING BOX 30B	MOUNTING BOX 55B
Model	WB2501, WB25, PB2, PB25, MRB201	WB30, PB3	WB5501, WB55, PB5, PB55, MRB301

### SURFACE MOUNT BOX

#### Mounting Box 25B

- Flame-retardant
- Impact-resistant ABS polymer
- 46.5 X 117.4 X 44.3 mm



#### Mounting Box 30B

- Flame-retardant
- Impact-resistant ABS polymer
- 117.4 X 73 X 44.3 mm

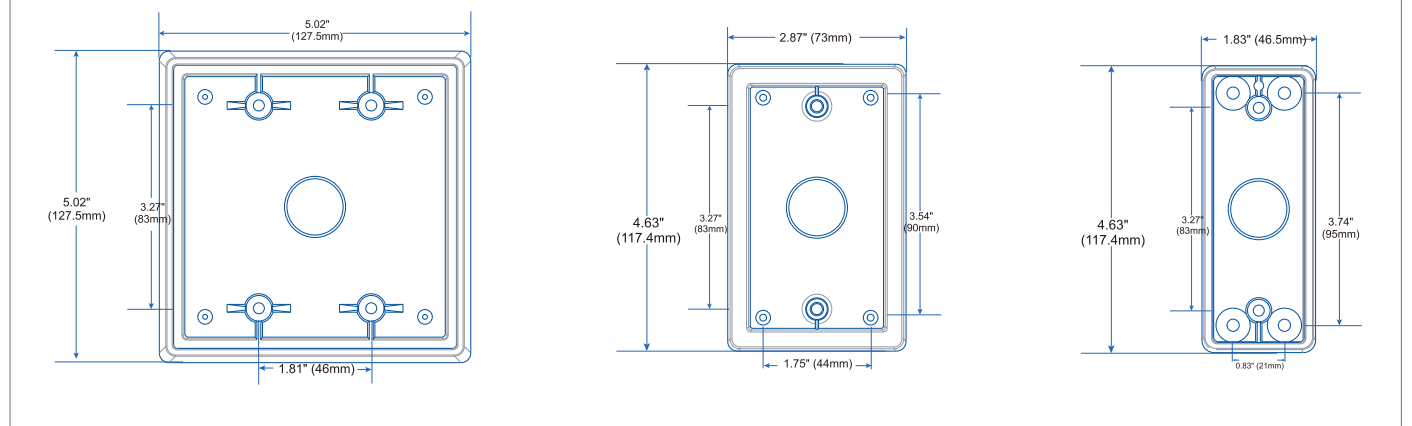


#### Mounting Box 55B

- Flame-retardant
- Impact-resistant ABS polymer
- 127.5 X 127.5 X 50.53mm



### BOXES DIMENSIONS



# WR-WAVE-KIT1 Restroom Touch-Free Switch Control Kit

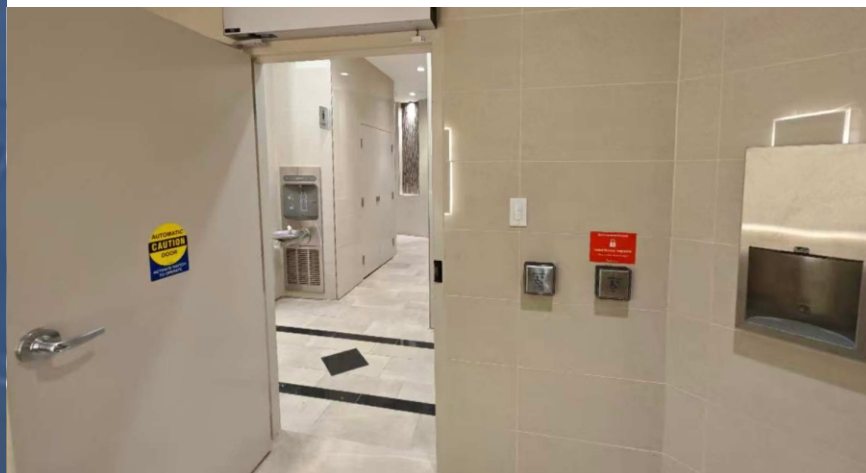


The MZE Restroom Touch-Free Switch Control Kit offers a modern and hygienic solution for automatic door operation in universal and barrier-free washrooms.

Each system integrates intelligent logic control, LED-illuminated status indication, and hands-free activation to ensure safety, convenience, and code compliance in public and commercial facilities.

The kit includes all essential components for a complete installation — from the Wave to Open Switch and Illuminated Wave to Lock Switch to the Magnetic Door Contact, Wave to Open/Lock Status Sign, and Advanced Logic Controller.

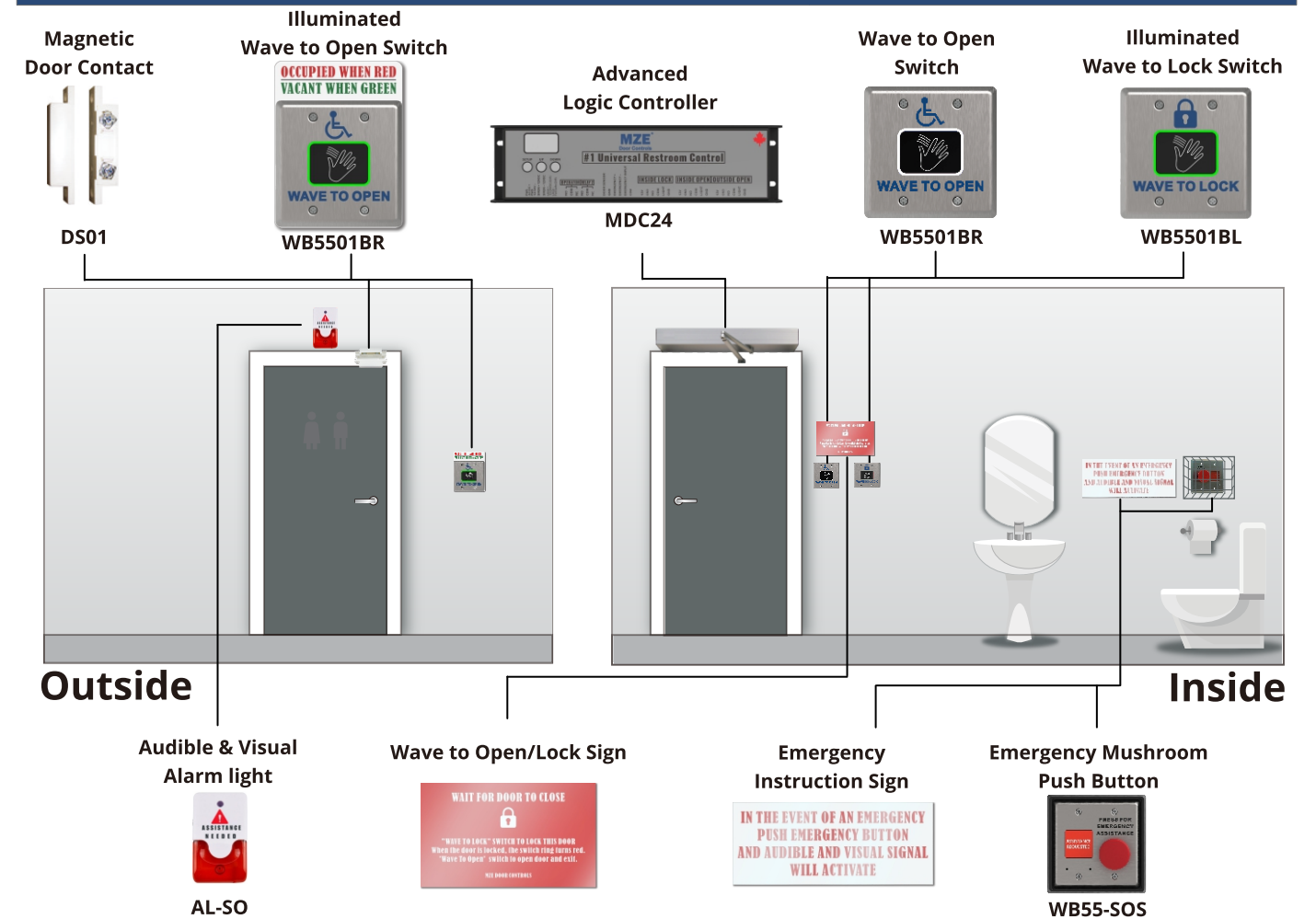
This system enables seamless door operation and real-time status feedback, providing both visual and audible indication for occupied and vacant conditions.



### Features

- Designed for touch-free door activation in universal and barrier-free washrooms
- Includes all required components: advanced logic controller, touch-free switches, magnetic door contact, and illuminated status signage
- Wave to Open Switch and Illuminated Wave to Lock Switch provide hygienic, non-contact operation with clear LED feedback (Occupied/Vacant)
- Illuminated signage enhances accessibility and user visibility
- Fully compatible with MZE emergency assistance kits
- Intuitive wiring design for quick installation and reliable long-term performance
- 3-year warranty

### UNIVERSAL RESTROOM DIAGRAM



### PARTS AND ACCESSORIES INCLUDED

<p><b>Wave to Open Switch</b></p> <ul style="list-style-type: none"> <li>- Active Infrared</li> <li>- Detection Range 3 – 26" (Adjustable)</li> <li>- Double Gang with Occupied/Vacant Label</li> </ul> <p><b>WB5501BR</b></p>	<p><b>Wave to Open Switch</b></p> <ul style="list-style-type: none"> <li>- Active Infrared</li> <li>- Detection Range 3 – 26" (Adjustable)</li> <li>- 12/24V DC ±12%</li> </ul> <p><b>WB5501BR</b></p>	<p><b>Wave to Lock Switch</b></p> <ul style="list-style-type: none"> <li>- Active Infrared</li> <li>- Detection Range 3 – 26" (Adjustable)</li> <li>- 12/24V DC ±12%</li> </ul> <p><b>WB5501BL</b></p>
<p><b>Advanced Logic Controller</b></p> <ul style="list-style-type: none"> <li>- Different Operating Modes, With Adjustable Timers On Each Relay</li> <li>- 5 Inputs, Including A 'wet' Input</li> <li>- 3 Buttons for Mode Selection</li> </ul> <p><b>MDC24</b></p>	<p><b>Magnetic Door Contact</b></p> <ul style="list-style-type: none"> <li>- Surface</li> <li>- SPST Contact</li> <li>- 15/16" (23mm) Gap</li> </ul> <p><b>DS01</b></p>	



## WR-EB-KIT Restroom Emergency Assistance Kit

**IN THE EVENT OF AN EMERGENCY  
PUSH EMERGENCY BUTTON  
AND AUDIBLE AND VISUAL SIGNAL  
WILL ACTIVATE**



The MZE Restroom Emergency Assistance Kit provides a complete, code-compliant emergency call system for accessible and universal washrooms.

It combines reliable performance, intuitive operation, and high visibility to ensure fast response when assistance is needed.

Each kit includes an Emergency Mushroom Push Button, an Audible & Visual Alarm Light, and an Emergency Instruction Sign, providing a clear and effective means of alerting building staff or attendants during an emergency.

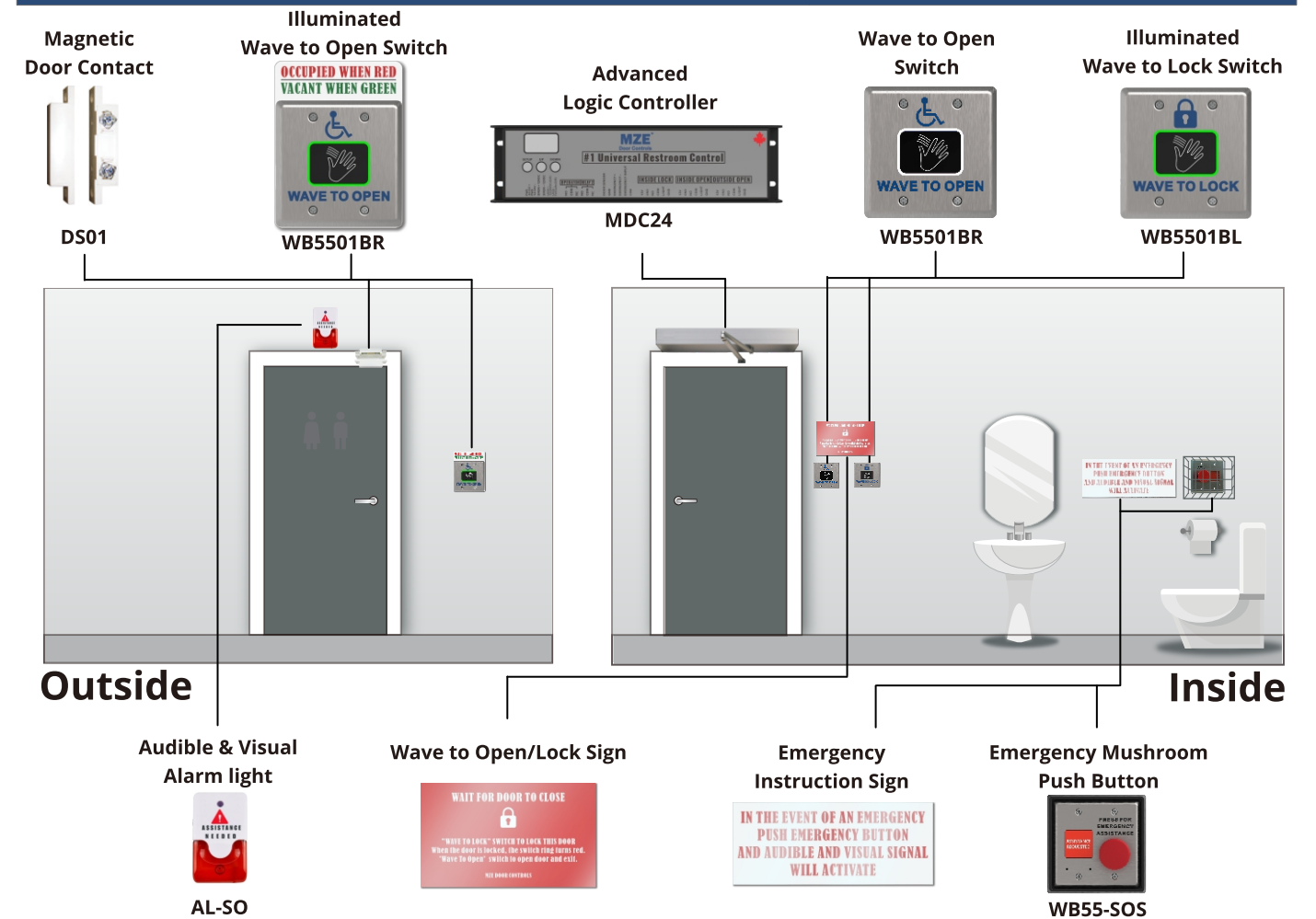
The Audible & Visual Alarm light offering clear visual and audible indication inside and outside the restroom.



### Features

- Designed for universal and barrier-free washrooms, compatible with or without automatic door systems
- Provides visual and audible alerts both inside and outside the restroom, with adjustable sound level
- Emergency Mushroom Push Button available in maintained types, with large, easy-to-press actuator
- Audible & Visual Alarm Light built-in sounder and flashing indicator
- Emergency Instruction Sign provides clear guidance in English
- Fully compatible with all MZE barrier-free restroom control systems
- 3-year warranty

### UNIVERSAL RESTROOM DIAGRAM



### PARTS AND ACCESSORIES INCLUDED

#### Audible & Visual Alarm Light

- Selectable steady/flash visual indicator
- Fits 2x4 box or wall mount
- Simple 2-wire non-polarized BUS connection



AL-SO

#### Emergency Instruction Sign

- English
- Solid White Sign
- 150 X 270 mm



#### Emergency Mushroom Push Button

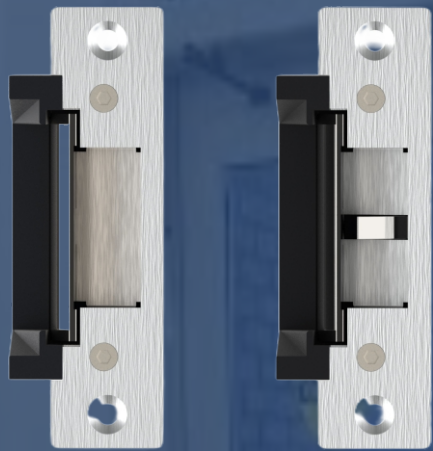
- Push/Pull Mushroom Push Button
- Red, 'Assistance Required'
- LED Annunciator and Adjustable Sounder



WB55-SOS



## ES236 & ES236S Electric Strikes



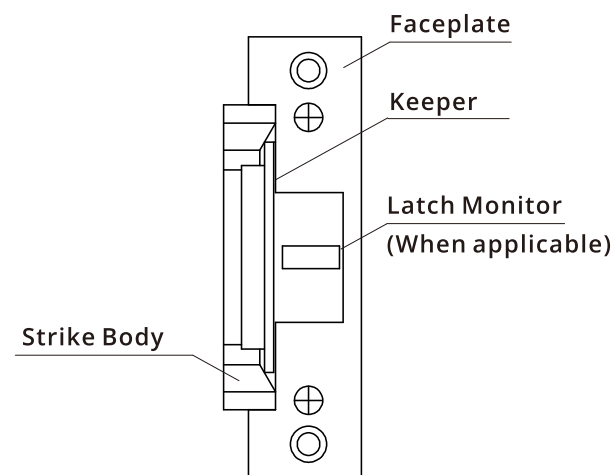
The low-profile, versatile ES236 & ES236S electric strikes are engineered for compatibility with cylindrical locksets and select mortise locksets without deadbolts, suitable for both metal and wood door frames.

The ES236 model provides reliable mechanical performance for standard access control applications. The ES236S variant includes a built-in signal output, enabling door status monitoring or access control system integration where feedback indication is required.

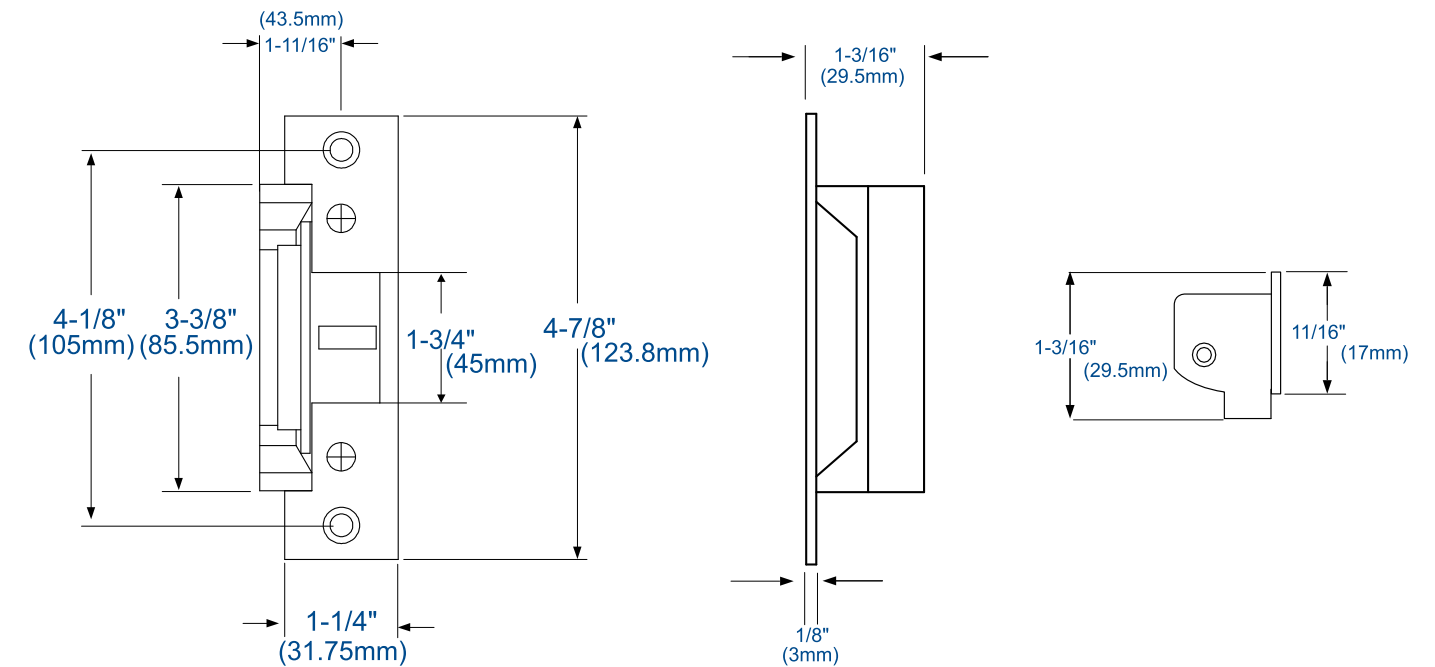
Both models are designed for easy installation, high durability, and consistent performance in commercial and institutional environments.

### Features

- Low Profile
- Field selectable fail-safe and fail-secure (fail-secure default), with simple and easy screw reversal
- Included trim piece for installation flexibility and improved appearance
- Mounting tabs included for aluminum frame installation
- Two face plates included: Radius and square edge stainless steel (4 7/8" x 1 1/4")
- Field selectable 12/24 VDC
- Voltage spike suppressor included
- Suitable for rain or dust environment



### PRODUCT INSTRUCTIONS



### SPECIFICATIONS

Model	ES236	ES236S
Operating Voltage	12 VDC or 24 VDC	
Voltage Tolerance	±10%	
Current Draw	300mA/12VDC, 150mA/24VDC	
Operating Temperature	14°F to 120°F (-10°C to 49°C)	
Latch Throw	3/4" (19mm)	
Keeper Width	1 3/4"(45mm)	
Static Strength	1500 lbs	
Dynamic Strength	70 ft-lbs	
Cycle Test	250,000 cycles	
Latch Monitor	No	Yes



# ML280 & ML500 Single Door Magnetic Locks

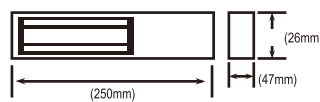


### Features

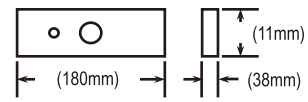
- Collinear load test: 280KG (600Lbs) / 500KG (1200Lbs), certified by UL (USA) and CE (EU)
- Supports dual voltage: 12VDC or 24VDC (optional)
- Built-in reverse current protection device (MOV)
- Housing made of high-strength anodized aluminum alloy
- Anti-residual magnetism design with wear-resistant materials
- Dual insulative housing for increased holding force
- Pure electromagnetic suction with no mechanical failure

### ML 280

#### Electromagnet

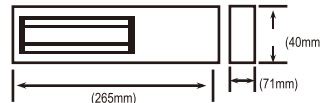


#### Armature Plate

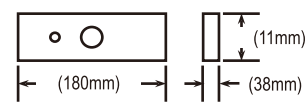


### ML 500

#### Electromagnet



#### Armature Plate



The ML280 and ML500 have passed 280kg (600lbs) and 500kg (1200lbs) holding force tests, supporting both 12VDC and 24VDC dual voltage input. Each unit is equipped with a built-in reverse current protection device for enhanced safety and adaptability.

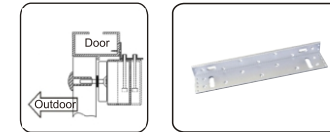
Designed with anti-residual magnetism and wear-resistant materials, the locks ensure long-term reliable performance.

Both models deliver up to 20% stronger holding force compared to conventional products and are certified by UL (USA) and CE (EU), fully meeting international safety standards. With pure electromagnetic suction and no mechanical wear, the ML280 and ML500 provide stable operation and are widely applied in airports, subways, banks, prisons, intelligent buildings, and smart communities—earning the trust of global users.

### PRODUCT MOUNTING BRACKET

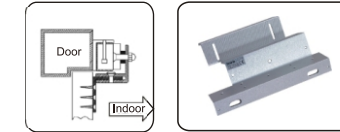
#### L Mounting Bracket

For doors with a width of less than 42mm, the armature plate cannot be properly installed. An additional L-shaped bracket is required.



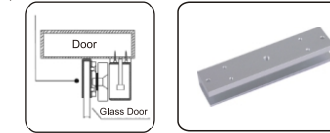
#### ZL Mounting Bracket

For in-swing doors, install the lock body on the inside and use the ZL bracket simultaneously.



#### U Mounting Bracket

When installing magnetic locks on glass doors (10-15mm thick), an additional U bracket is required.



#### Armature Plate Bracket

For thicker doors, it is necessary to use the dedicated armature plate bracket.



### SPECIFICATIONS

Model	ML 280	ML 500
Product Type	Single Door Magnetic Lock	
Lock Dimensions	250X47X26 mm	265X71X40 mm
Armature Plate Dimensions	180X38X11 mm	185X60X13 mm
Holding Force	280kg(600lbs)*2	500kg(1200lbs)*2
Signal Output	Yes	
Input Voltage	DC 12V or DC 24V	
Operating Current	12V/480mA*2, 24V/240mA*2	12V/600mA*2, 24V/300mA*2
Applicable Door Types	Wooden, Glass, Metal, and Fire-Rated Doors	
Time Delay	No	No
Security Type	Fail Safe	
Weight	2kg	4.5kg

For detailed specifications and functions, please refer to the User Manual. In the event of any inconsistency, the contents of the User Manual shall prevail.



# ML280D & ML500D Double Door Magnetic Locks



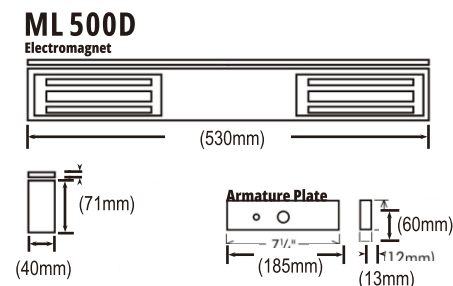
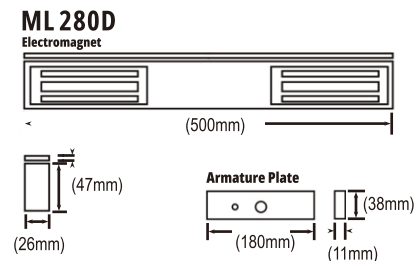
The ML280D and ML500D have passed 280kg (600lbs) and 500kg (1200lbs) holding force tests, supporting both 12VDC and 24VDC dual voltage input. Each unit is equipped with a built-in reverse current protection device for enhanced safety and adaptability.

Designed with anti-residual magnetism and wear-resistant materials, the locks ensure long-term reliable performance.

Both models deliver up to 20% stronger holding force compared to conventional products and are certified by UL (USA) and CE (EU), fully meeting international safety standards. With pure electromagnetic suction and no mechanical wear, the ML280D and ML500D provide stable operation and are widely applied in airports, subways, banks, prisons, intelligent buildings, and smart communities—earning the trust of global users.

### Features

- Collinear load test: 280KG (600Lbs) / 500KG (1200Lbs), certified by UL (USA) and CE (EU)
- Supports dual voltage: 12VDC or 24VDC (optional)
- Built-in reverse current protection device (MOV)
- Housing made of high-strength anodized aluminum alloy
- Anti-residual magnetism design with wear-resistant materials
- Dual insulative housing for increased holding force
- Pure electromagnetic suction with no mechanical failure



### PRODUCT MOUNTING BRACKET

<p><b>L Mounting Bracket</b></p> <p>For doors with a width of less than 42mm, the armature plate cannot be properly installed. An additional L-shaped bracket is required.</p>	<p><b>ZL Mounting Bracket</b></p> <p>For in-swing doors, install the lock body on the inside and use the ZL bracket simultaneously.</p>
<p><b>U Mounting Bracket</b></p> <p>When installing magnetic locks on glass doors (10–15mm thick), an additional U bracket is required.</p>	<p><b>Armature Plate Bracket</b></p> <p>For thicker doors, it is necessary to use the dedicated armature plate bracket.</p>

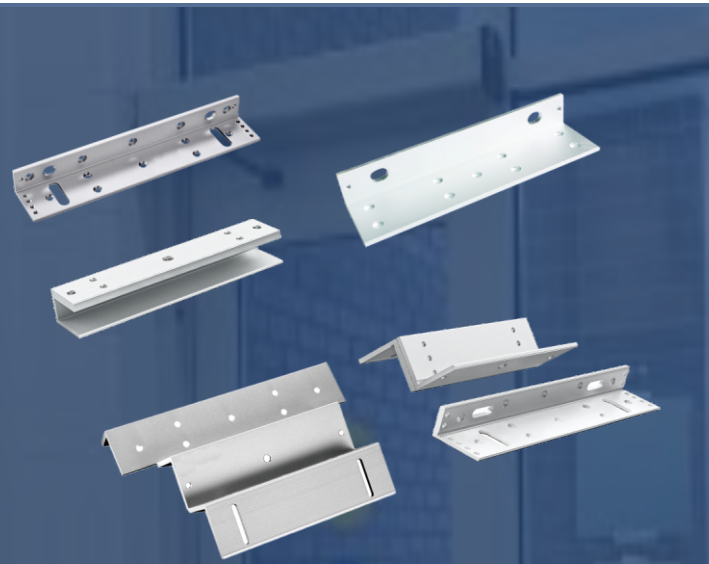
### SPECIFICATIONS

Model	ML 280D	ML 500D
Product Type	Double Door Magnetic Lock	
Lock Dimensions	500X47X26 mm	530X71X40 mm
Armature Plate Dimensions	180X38X11 mm	185X60X13 mm
Holding Force	280kg(600lbs)*2	500kg(1200lbs)*2
Signal Output	Yes	
Input Voltage	DC 12V or DC 24V	
Operating Current	12V/480mA*2, 24V/240mA*2	12V/600mA*2, 24V/300mA*2
Applicable Door Types	Wooden, Glass, Metal, and Fire-Rated Doors	
Time Delay	No	Yes
Security Type	Fail Safe	
Weight	4kg	9kg

For detailed specifications and functions, please refer to the User Manual. In the event of any inconsistency, the contents of the User Manual shall prevail.  
\*Weight and dimensions are approximate and subject to change without prior notice.



## 280L, 280ZL, 280U, 500L & 500ZL Mounting Brackets

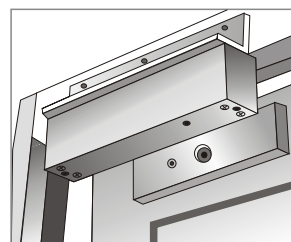


The MZE Magnetic Lock Mounting Brackets Series provides a complete range of brackets designed for secure and flexible installation of electromagnetic locks. With models suitable for both 600lbs (280KG) and 1200lbs (500KG) magnetic locks, the series ensures compatibility with various door types including outward-opening doors, inward-opening doors, and frameless glass doors.

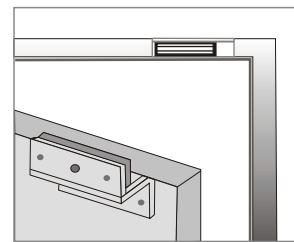
Made from high-strength aluminum alloy with a professional anodized finish, these brackets guarantee durability, stability, and a clean installation appearance.

### Features

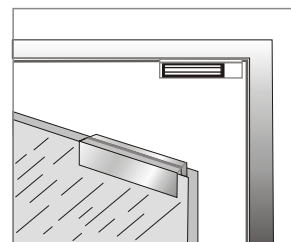
- 280L – L Bracket for 600lbs Mag Locks (ML280 / ML280D) For outward-opening doors, ensures stable lock mounting.
- 280ZL – Z&L Bracket for 600lbs Mag Locks (ML280 / ML280D) For inward-opening doors, provides both Z and L installation flexibility.
- 280U – U Bracket for Frameless Glass Door, 600lbs Mag Locks (ML280 / ML280D) Specially designed for glass doors without frames.
- 500L – L Bracket for 1200lbs Mag Locks (ML500 / ML500D) For outward-opening doors, supports higher holding force.
- 500ZL – Z&L Bracket for 1200lbs Mag Locks (ML500 / ML500D) For inward-opening doors, suitable for heavy-duty installations.



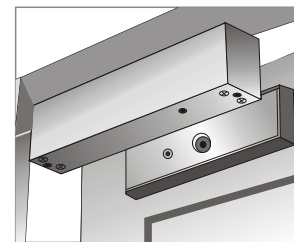
L Bracket



ZL Bracket



U Bracket



Effect of Installation groove on the Armature plate

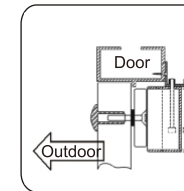
### SPECIFICATIONS

Model	Compatible with
280L, 280ZL, 280U	ML280 / ML280D
500L, 500ZL	ML500 / ML500D

### PRODUCT MOUNTING BRACKET

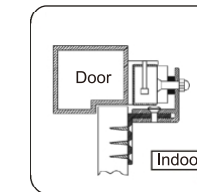
#### L Mounting Bracket

For doors with a width of less than 42mm, the armature plate cannot be properly installed. An additional L-shaped bracket is required.



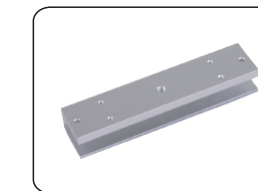
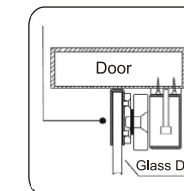
#### ZL Mounting Bracket

For in-swing doors, install the lock body on the inside and use the ZL bracket simultaneously.



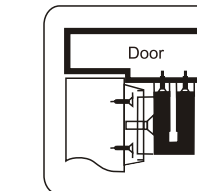
#### U Mounting Bracket

When installing magnetic locks on glass doors (10–15mm thick), an additional U bracket is required.



#### Armature Plate Bracket

For thicker doors, it is necessary to use the dedicated armature plate bracket.



For detailed specifications and functions, please refer to the User Manual. In the event of any inconsistency, the contents of the User Manual shall prevail.

**\*Weight and dimensions are approximate and subject to change without prior notice.**



**Factory Overview**

- **30,000 m<sup>2</sup> facility** (20,000 m<sup>2</sup> production + 5,000 m<sup>2</sup> office & R&D)
- USD **5M** investment, ~**250** staff
- **ISO 9001:2015** & **ISO 14001:2015** certified
- **UL/cUL** safety compliant
- RoHS lead-free, strict ESD & environmental controls



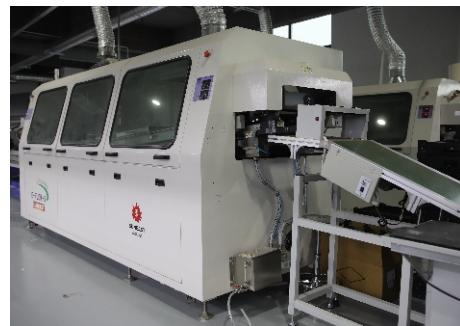
**In-House R&D**



**Precision SMT**

**SMT Automated Inspection**

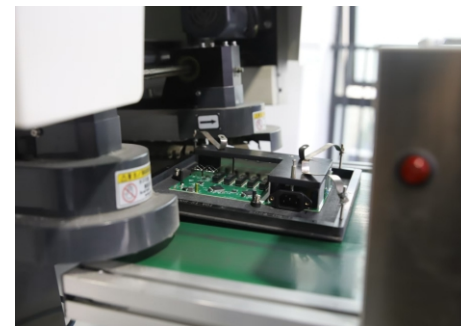
- Placement accuracy:  $\pm 25 \mu\text{m}$
- Defect rate: **<0.1%**
- Capacity: 50,000+ components/hour
- 100% AOI inspection



**Automated Assembly**

**ADA-Compliant Push Plates**

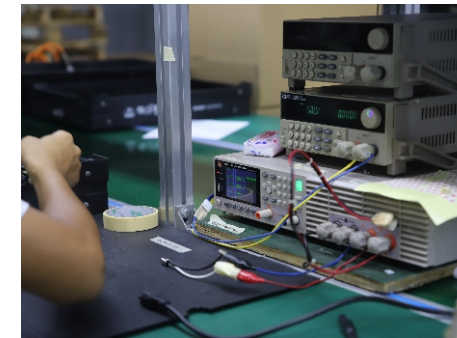
- Button lifespan:  $\geq 500,000$  cycles
- Label durability:  $\geq 5000$  rubs, alcohol-resistant
- UV/weather resistant:  $\geq 500$  hours stability
- Actuation force: 5N



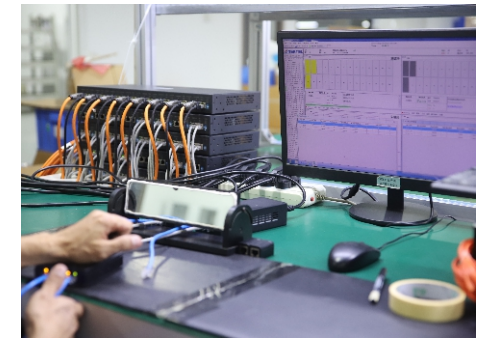
**Durability Verification**



**Electrical Safety Test**



**EMC/EMI Compliance**



**Data Transmission Test**



**Extreme Temperature Test**



**Burn-In Test**



**Strict Quality Control**

**Safe & Reliable Performance**

- High insulation & dielectric strength, FCC/EN certified for zero interference.

**Rugged Environmental Protection**

- Works in **-20°C to +55°C**
- Salt Spray **96h anti-corrosion verified**
- Humidity 95% RH at 40°C for 48h
- **IP54** minimum, up to **IP65** protection

**Tested for Durability**

- Continuous **72h** operation without failure.
- 100% Quality Checked
- Every unit fully tested: **NO** crashes, **NO** short circuits, **NO** leakage — reliable from day one.



**Head Office in Canada**

MZE is committed to providing responsive, convenient customer service through our website and support channels. Our website allow customers to browse products, access technical documentation 24/7.

- **Local Services**
- **Local Support**
- **Local Stock in Canada and US**