



ACCESS CONTROL



Infrared Sensor

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Touchless Sensor & Push Button

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Infrared Sensor

All in One Power Supply • Touchless • Sensitivity Adjustable • OEM Available



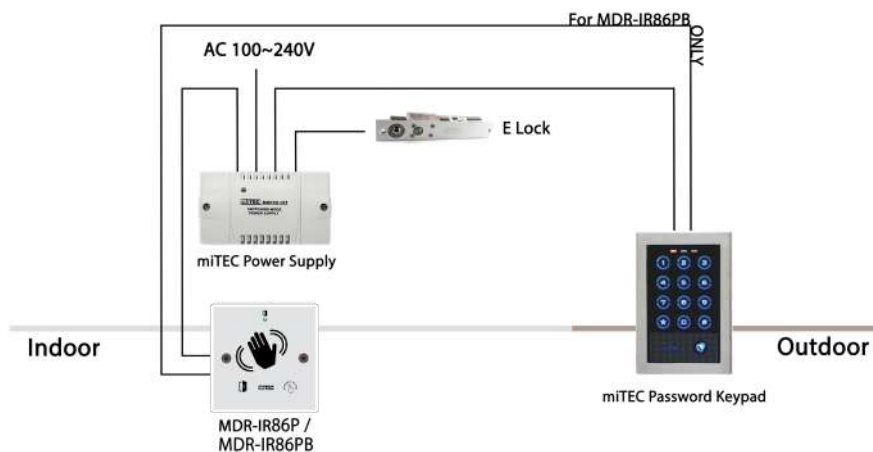
MDR-IR86PB (With Built-In Doorbell)



MDR-IR86P Infrared Door Release



MDR-IR86B Infrared Doorbell Sensor



- Infrared Door Release Set
- MDR-IR86P / MDR-IR86PB are Powered By Switching Mode Power Supply
- > If the password keypad is having a doorbell button, directly connect it to the MDR-IR86PB



- OEM Available

Activation Distance	1 ~ 15 cm Adjustable by Trimpot	Buzzer	1 ~ 20 Sec Beeps During Activation or Disable by Internal Jumper
Timer	Activate Infrared or External Door Exit Button Will Trigger the Relay for the Set Time	Manual Override Button	Work as Backup to the Infrared Sensor
Duration	1 ~ 20 Sec Adjustable by Trimpot	Door Exit Button Terminal (P.B)	Allow User Connect With an External Access Control Unit
Relay Contact Output	N.O./ COM/ N.C. Dry Contact	LED Indicator	Door Exit: Green (Standby)/ Red (Exit)
Relay Contact Rating	AC 250V, 3A / DC 30V, 3A	Dimensions	86 (W) x 86 (L) x 24 (H) mm
Operating Voltage	DC 9.0 ~ 13.8V	Weight	72g (MDR-IR86PB), 61g (MDR-IR86P / MDR-IR86B)
Current Consumption	15 mA Max. (Standby), 130 mA Peak. (Activation)		

- MDR-IR86B**
- 25 Musical Melodies With 'Dingdong' Sound, 3 Levels of Volume Control
 - 90 dB Sound Pressure

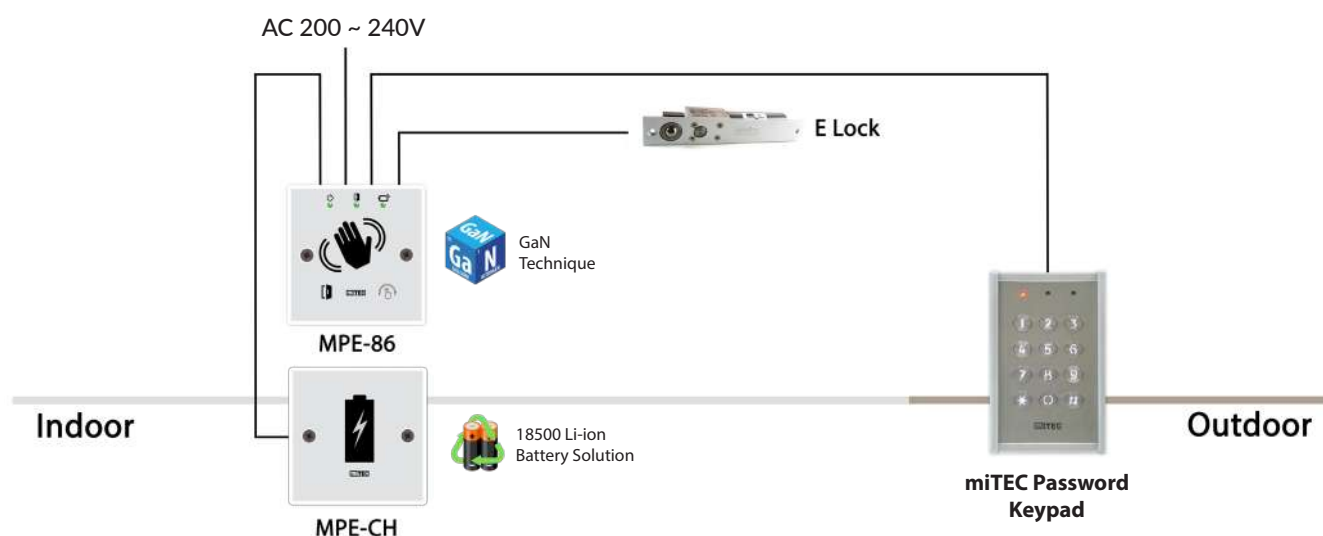
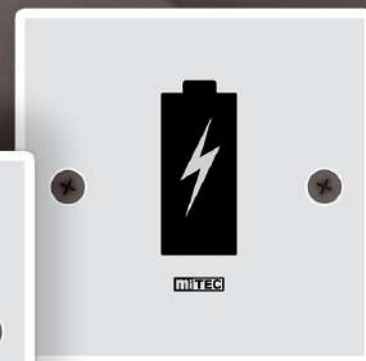
Contact Us



Touchless · All In One Power Supply

Infrared Door Release Set

NEW



MPE-86 All In One Power Supply Infrared Door Release

Activation Distance	1 ~ 15 cm Adjustable by Trimpot	Sound Pressure	90 dB
Timer	Activate Infrared or External Door Exit Button Will Trigger the Relay for the Set Tim	Manual Override Button	Work as Backup to the Infrared Sensor
Duration	1 ~ 20 Sec Adjustable by Trimpot	Door Exit Button Terminal (P.B)	Allow User Connect With an External Access Control Unit
Output Contact	N.O./ COM/ N.C. Dry Contact	LED Indicator	Power: Green (On)
Relay Contact Rating	AC 250V, 3A/ DC 30V, 3A		Door Exit: Green (Standby)/ Red (Exit)
AC Input/ Frequency	AC 200 ~ 240V/ 50 ~ 60 Hz	Batteries Charger Board (Optional)	Battery: Green
Output Voltage	DC 12.5V		Used With the Battery Module MPE-CH, When the AC Power Fault. It Can Maintain Normal Operation of the System for a Short Time
Output Current	2.5A Max.	Dimensions	86 (W) x 86 (L) x 42 (H) mm
Ripple and Noise	120mVp-p Max.	Weight	0.15 kg
Buzzer	1 ~ 20 Sec Beeps During Activation or Disable by Internal Dip Switch		

MPE-CH Battery for MPE-86 (Surface Mount)

Batteries Type	18500 Lithium-ion Battery x 3
Rated Voltage	DC 11.1V
Rated Current	2.5 A
Capacity	2000 mAh
Discharge Time & Fully Charged Time	50 Mins Approx. Used With the MPE-86 Under Full Load Conditions & 14 Hours Approx.
Discharge Cutoff Voltage	DC 8.1V Approx.
Dimensions	86 (W) x 86 (L) x 41 (H) mm
Weight	0.22 kg

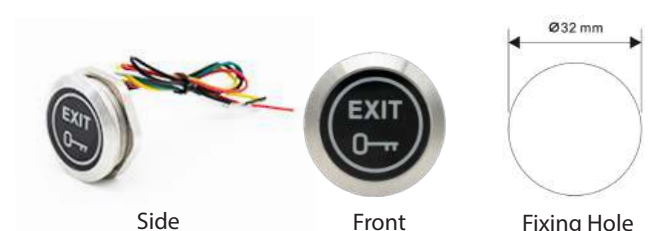


• OEM Available

Infrared Exit Sensor

25 mm IR Sensor MSW-IR25 Exit+KEY Infrared Sensor

32 mm IR Sensor MSW-IR32 Exit+KEY Exit+KEY/BZ (with Buzzer)



Operating Voltage	DC 12-24V $\pm 10\%$
Power Dissipation	0.35W
Sensor Range	0-15cm, Delay: 1Sec
Relay Output	N.O./COM/N.C. (Dry Contact DC 30V, 1A Max.)
LED Backlight	Standby: Red Light Trigger: Green Light
Material	Stainless Steel with PC Surface
IP Rating	IP65
Mounting Diameter	25mm
Dimensions	Ø28×25(D)mm
Weight	26g

Operating Voltage	DC 12-24V $\pm 10\%$
Power Dissipation	1.8W
Sensor Range	0-15cm, Delay: 1Sec
Relay Output	N.O./COM/N.C. (Dry Contact DC 30V, 1A Max.)
LED Backlight	Standby: Red Light Trigger: Green Light
Buzzer (Optional)	90dB
Material	Stainless Steel with PC Surface
IP Rating	IP65
Mounting Diameter	32mm
Dimensions	Ø36×22(D)mm
Weight	35g

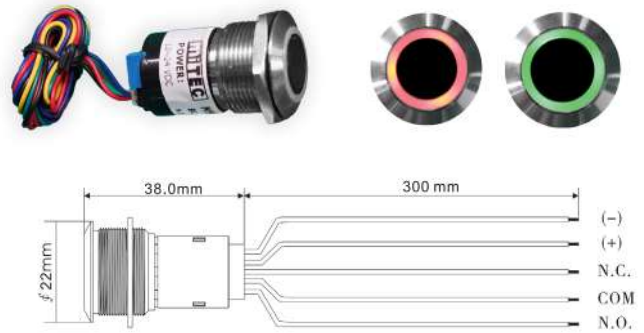
Touchless • Infrared Sensor

Stable & Operational

Throughout ranges of Temperature

& Environment

MSW-IR19/DR
19mm Infrared Sensor
(Flush Mount)
For Door Release / Call Button for Lift



MSW-IR19/DR 19mm Infrared Sensor

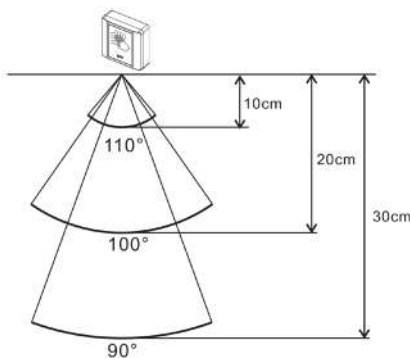
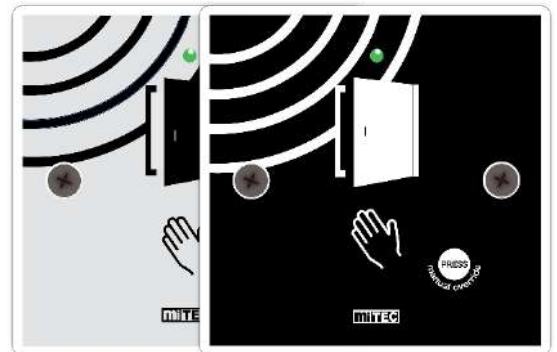
Case Material	Stainless Steel (Flush Mounting)
Operating Voltage	DC 12 ~ 24V
Current Consumption	4 mA Max. (Standby), 70mA Max. (Activation)
Activation Distance	0 ~ 12 cm
Duration	0.5 ~ 20 sec
Latch/ Timer Relay Output	2 N.O./ 2 N.C.
LED Backlight	Red (Standby), Green (Activation)/ Selectable illumination Status Feature
IP Rating	IP65
Mounting Diameter	19 mm
Weight	25 g

Touchless • Microwave Door Sensor

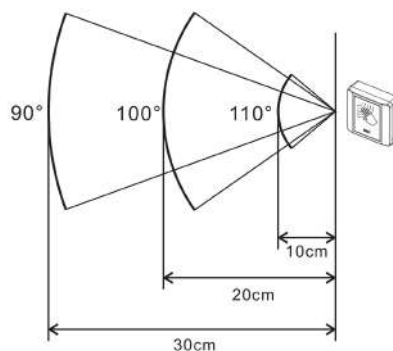
Highly Motion Sensitive

Adaptable Environment

- For Customization: Grey & Black
- OEM Available



Vertical Sensing



Horizontal Sensing

MWS-202 Microwave Door Sensor

Material	Plastic Faceplate
Mounting	Wall or Ceiling Mount
Relock Timer	OFF / 5 sec
Sensor Range	0-10 cm / 0-30 cm
Output Contact	N.O./ COM / N.C. DC 30V, 3A or AC 120V, 7A
Power Input	DC 12V
IP Rating	IP65
Dimensions	87 (W) x 87 (L) x 41 (H) mm
Weight	147 g



Models :

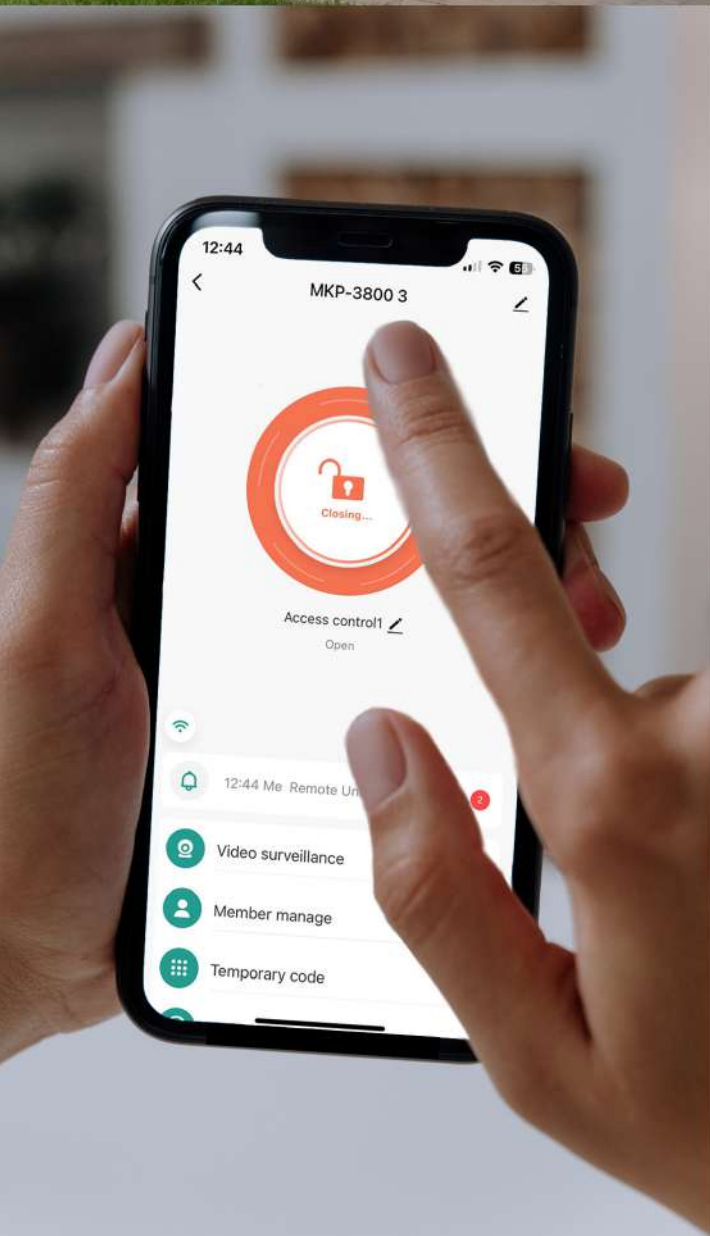
MKP-3800 Smart Keypad with RFID + Fingerprint

MKP-3801 Smart Keypad with RFID

MKP-3802 Keypad with RFID + Fingerprint

iOT Password Keypad

Work With APP • Fingerprint • RFID • Waterproof



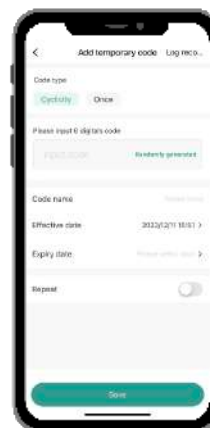
Working with :



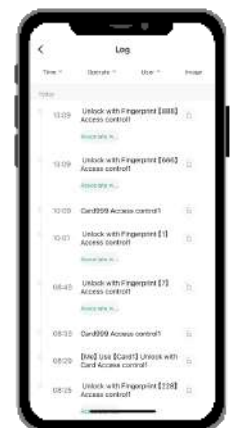
Tuya APP



Smart Life APP



▲ Create temporary passwords



▲ Access to cloud log

◀ Remote door unlock through APP



Smartphone
Remote Control
(Android & iOS)



WiFi 2.4GHz
Connection



Cloud Log
Access



Fingerprint



Code & Card



MIFARE (13.56MHz),
FeliCa, NFC



Zinc-Alloy Case



Touch Keypad



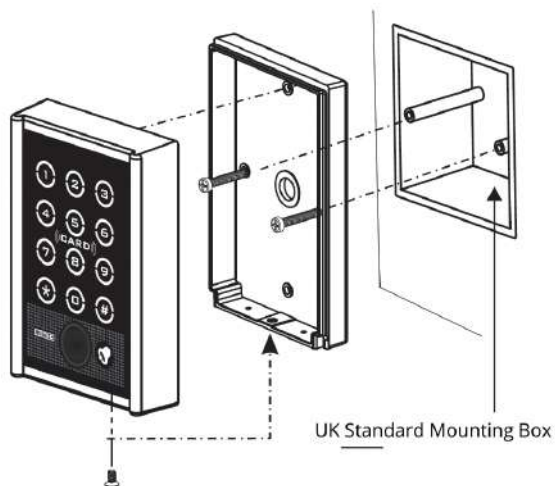
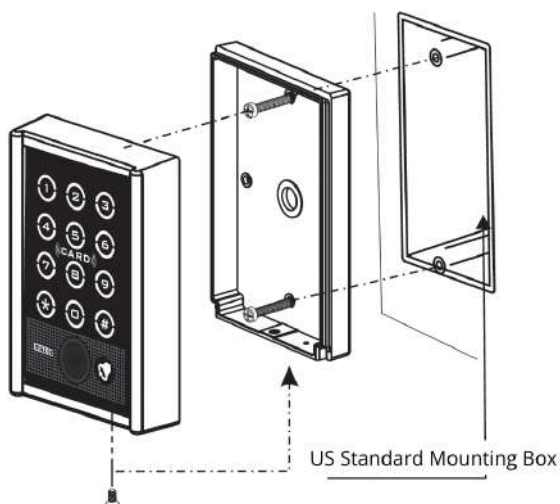
LED Keypad
Backlight



Doorbell Button

MKP-3800 Smart Waterproof Keypad with RFID + Fingerprint

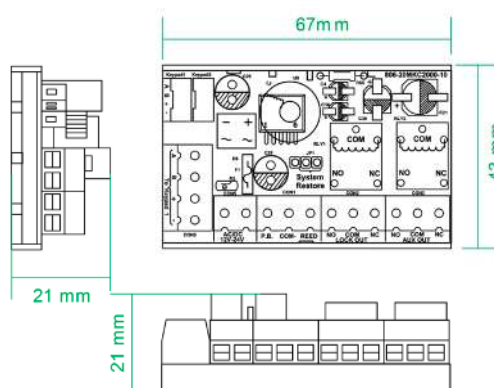
Operating Voltage	DC 12-24V $\pm$ 20%
Operating Current	Standby: <150mA Max.: <300mA
Number of Users	No. 0001-1000 Code + Card + Fingerprint
	No. 1001-2000 Code + Card
APP Control Users	Assign Max. 200 Users for APP Control
Read Range	0-5cm
Relay Output	N.O. / COM / N.C. (Dry Contact DC 14V, 12A Max.)
IP Rating	IP54
Operating Temperature	-20°C to +60°C
Operating Humidity	0-95%
Dimensions	79 (W) x 120 (H) x 35 (D)mm
Weight	450g



MKP-S6220



MKC-2000



- Piezoelectric Button
- Built-in Card Reader (125KHz)
- 600 User Cards & PIN Codes
- 2 Programmable Relay Outputs
- 4 Colors LED & Audible Indication
- Door Monitoring Function
- 4 Wires From Keypad to Control
- IP65

ELECTRICAL CHARACTERISTICS

Power Input	AC or DC 12V to 24V, from a regulated power supply (80-175 mA at DC 12V)
Relay Output Loading	Max. 3 amps N.O. or N.C. (lock & aux. relays)

OPERATIONAL CHARACTERISTICS

P.B. Input (REX)	N.O. (dry contact) for activating the lock relay
REED Input	N.C. (dry contact) For door monitoring
Capacity	600 User cards & PIN codes
LED Indication	4 Colors LED: Power/ Program, Lock Out and Aux Out status

ENVIRONMENTAL CHARACTERISTICS

IP Rating	IP 65 (keypad only)
Operating Temperature	-20°C to 60°C

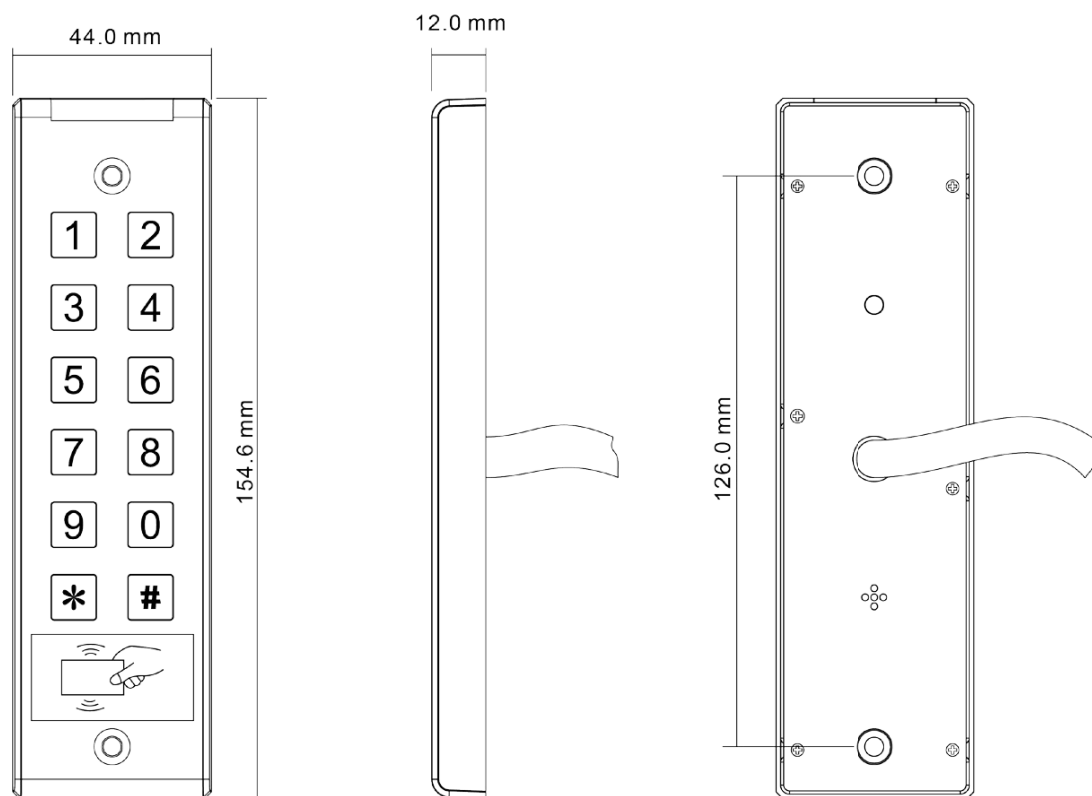
PHYSICAL CHARACTERISTICS

Keypad Dimensions (MKP-S6220)	44 (W) x 154 (H) x 10 (D) mm
Control Board Dimensions (MKC-2000)	67 (W) x 43 (H) x 20 (D) mm
Weight (Approx.)	230g (Keypad + control)

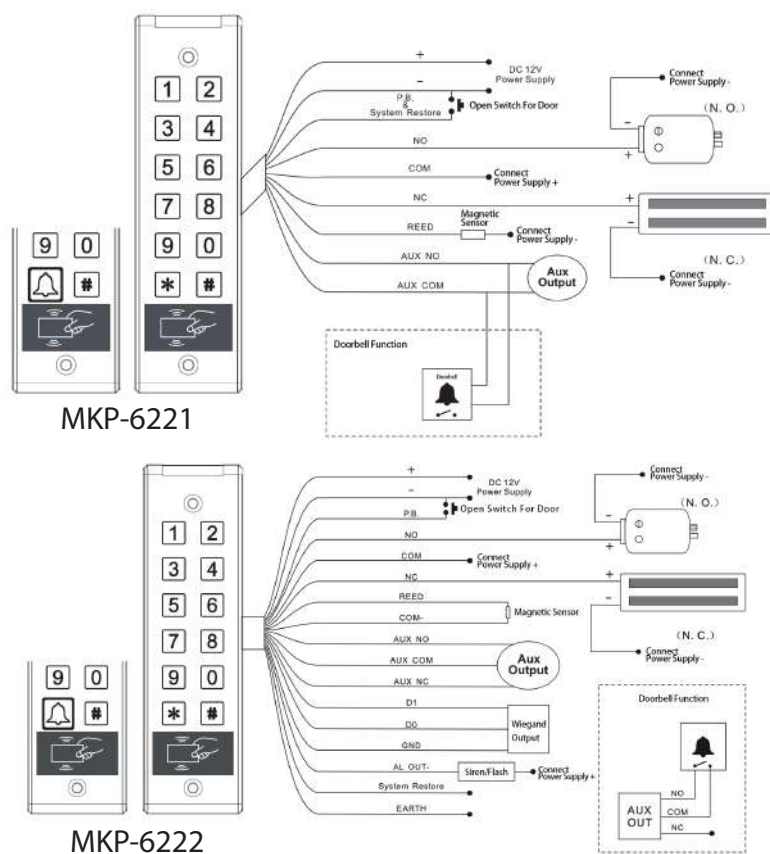


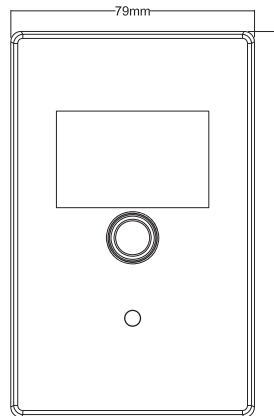
- Piezoelectric Button
- Built-in Card Reader (125KHz)
- 600 User Cards & PIN Codes
- 2 Programmable Relay Outputs
- 4 Colors LED & Audible Indication
- Door Monitoring Function
- 4 Wires From Keypad to Control
- IP65

MODEL	MKP-6222	MKP-6221
ELECTRICAL CHARACTERISITICS		
Power Input	AC or DC 12V to 24V, from a regulated power supply (80-175 mA at DC 12V)	
Maximum Input Current	170 mA at DC 12V	
Standby Input Current	80 mA at DC 12V	
Relay Output Loading	Max. 2 amps N.O. or N.C. (lock & aux. relays)	Max. 2 smps N.O. or N.C. (lock relays only)
AL- Output Loading	Max. 500 mA at DC 12V	-
OPERATIONAL CHARACTERISITICS		
P.B. Input (REX)	N.O. (dry contact) for activating the lock relay	
REED Input	N.C. (dry contact) for door monitoring	
Capacity	600 User cards & PIN codes	
Wiegand Output	26 bit & 34 bit	-
LED Indication	4 Colors LED: Power/ Program, Lock Out and Aux Out status	
ENVIRONMENTAL CHARACTERISITICS		
IP Rating	IP 65	
Operating Humidity	0 to 95% Non-condensing	
PHYSICAL CHARACTERISITICS		
Dimensions	44 (W) x 155 (H) x 12 (D) mm	
Weight (Approx.)	250g	230g

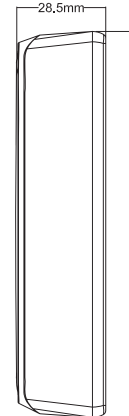


Connection Diagram





Back



Side

- 3 Colours LED Display
- 125 KHz EM Card
- 600 User Cards & PIN Codes
- 2 Programmable Relay Outputs
- Door Monitor Function
- Alarm Signal Output
- AC/ DC12-24V
- IP65

ELECTRICAL CHARACTERISTICS

Power Input	AC or DC 12V to 24V, from a regulated power supply (80-175 mA at DC 12V)
Maximum Input Current	170 mA at DC 12V
Standby Input Current	100 mA at DC 12V
Relay Output Loading	Max. 3 amps N.O. or N.C. (lock & aux. relays)
AL- Output Loading	Max. 500 mA at DC 12V

OPERATIONAL CHARACTERISTICS

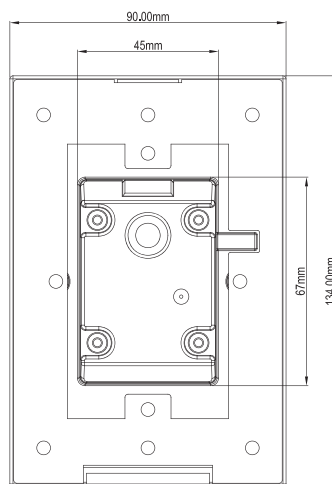
P.B. Input (REX)	N.O. (dry contact) for activating the lock relay
REED Input	N.C. (dry contact) for door monitoring
Capacity	600 User cards & PIN codes
LED Indication	3 Colours LED: Power/ Program, Lock Out and Aux Out status

ENVIRONMENTAL CHARACTERISTICS

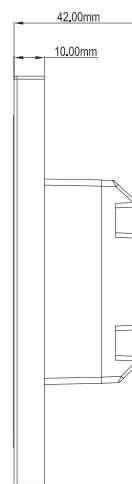
IP Rating	IP 65
Operating Humidity	0% to 95% Non-Condensing
Operating Temperature	- 20°C to 60°C

PHYSICAL CHARACTERISTICS

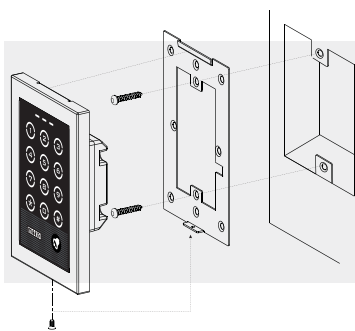
Dimensions	79 (W) x 125 (H) x 28.5 (D) mm
Weight (Approx.)	550g



Back



Side



- 3 LEDs Display
- 125 KHz EM card
- 600 User Cards & PIN Codes
- 2 Programmable Relay Outputs
- Door Monitor Function
- Door Chime Button
- Alarm Signal Output
- AC/ DC 12-24V
- IP65

ELECTRICAL CHARACTERISTICS

Power Input	AC or DC 12V to 24V, from a regulated power supply (80-175 mA at DC 12V)
Maximum Input Current	200 mA at DC 12V
Standby Input Current	85 mA at DC 12V
Relay Output Loading	Max. 3 amps N.O. or N.C. (lock & aux. relays)
AL - Output Loading	Max. 500 mA at DC 12V

OPERATIONAL CHARACTERISTICS

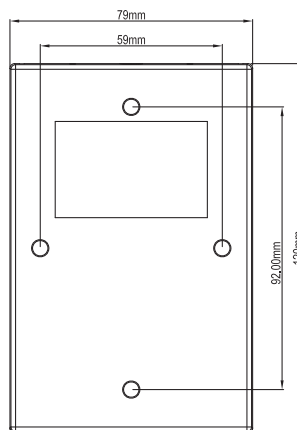
P.B. Input (REX)	N.O. (dry contact) for activating the lock relay
REED Input	N.C. (dry contact) for door monitoring
Capacity	600 User cards & PIN codes
Wiegand Output	26 bit & 34 bit
LED Indication	3 LEDs: Power/ Program, Lock Out and Aux Out status

ENVIRONMENTAL CHARACTERISTICS

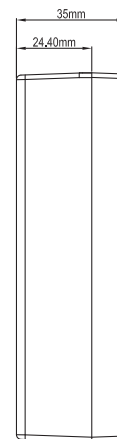
IP Rating	IP65
Operating Temperature	-20°C to 60°C
Operating Humidity	0% to 95% Non-condensing

PHYSICAL CHARACTERISTICS

Dimensions	90 (W) x 134 (H) x 42 (D) mm
Weight (Approx.)	270g



Back



Side

- 3 LEDs Display
- 125 KHz EM Card
- 600 User Cards & PIN Codes
- 2 Programmable Relay Outputs
- Door Monitor Function
- Door Chime Button
- Alarm Signal Output
- AC/ DC 12-24V
- IP65

ELECTRICAL CHARACTERISTICS

Power Input	AC or DC 12V to 24V, from a regulated power supply (80-175 mA at DC 12V)
Maximum Input Current	200 mA at DC 12V
Standby Input Current	85 mA at DC 12V
Relay Output Loading	Max. 3 amps N.O. or N.C. (lock & aux. relays)
AL - Output Loading	Max. 500 mA at DC 12V

OPERATIONAL CHARACTERISTICS

P.B. Input (REX)	N.O. (dry contact) for activating the lock relay
REED Input	N.C. (dry contact) for door monitoring
Capacity	600 User cards & PIN codes
Wiegand Output	26 bit & 34 bit
LED Indication	3 LEDs: Power/ Program, Lock Out and Aux Out status

ENVIRONMENTAL CHARACTERISTICS

IP Rating	IP65
Operating Temperature	-20°C to 60°C
Operating Humidity	0% to 95% Non-condensing

PHYSICAL CHARACTERISTICS

Dimensions	79 (W) x 120 (H) x 35 (D) mm
Weight (Approx.)	470g



- 3 LEDs Display
- 99 PIN Codes (4-8 Digits)
- 2 Programmable Relay Outputs
- Door Monitor Function
- Alarm Signal Output
- AC/DC 12-24V
- IP65

ELECTRICAL CHARACTERISTICS

Power Input	AC or DC 12V to 24V, from a regulated power supply
Maximum Input Current	85 mA at DC 12V
Standby Input Current	25 mA at DC 12V
Relay Output Loading	Max. 3 amps N.O. or N.C. (lock & aux. relays)
AL- Output Loading	Max. 500 mA at DC 12V

OPERATIONAL CHARACTERISTICS

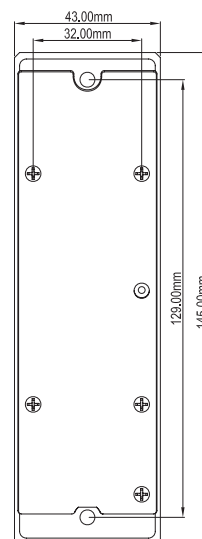
P.B. Input (REX)	N.O. (dry contact) for activating the lock relay
REED Input	N.C. (dry contact) for door monitoring
Pin-Codes	99 PIN codes (4-8 Digits)
LED Indication	3 LEDs: Power/ Program, Lock Out and Aux Out status

ENVIRONMENTAL CHARACTERISTICS

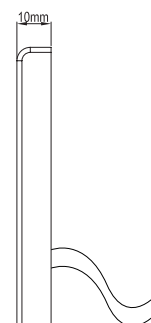
IP Rating	IP65
Operating Humidity	0% to 95% Non-condensing
Operating Temperature	- 20°C to 60°C

PHYSICAL CHARACTERISTICS

Dimensions	80 (W) x 120 (H) x 25 (D) mm
Weight (Approx.)	435g



Back



Side

- 2 LEDs Display
- 99 PIN Codes (4-8 Digits)
- Programmable Relay Output
- IP65

ELECTRICAL CHARACTERISTICS

Power Input	DC 12V, from a power supply
Maximum Input Current	60 mA at DC 12V
Standby Input Current	25 mA at DC 12V
Relay Output Loading	Max. 2 amps N.O. or N.C. (lock relays)
AL- Output Loading	-

OPERATIONAL CHARACTERISTICS

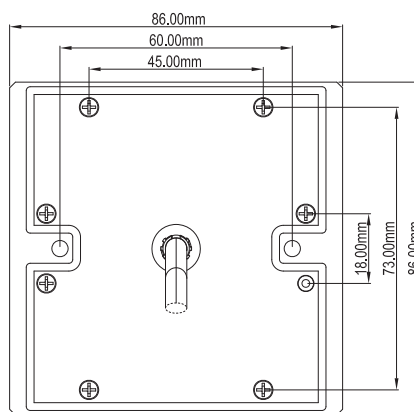
P.B. Input (REX)	N.O. (dry contact) for activating the lock relay
REED Input	-
Pin-Codes	99 PIN Codes (4-8 Digits)
LED Indication	2 LEDs: Power/ Program and Lock Out Status

ENVIRONMENTAL CHARACTERISTICS

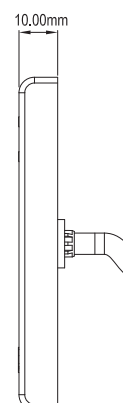
IP Rating	IP65
Operating Humidity	0% to 95% Non-condensing
Operating Temperature	- 20°C to 60°C

PHYSICAL CHARACTERISTICS

Dimensions	43 (W) x 145 (H) x 10 (D) mm
Weight (Approx.)	110g



Back



Side



- 2 LEDs Display
- 99 PIN Codes (4-8 Digits)
- 2 Programmable Relay Outputs
- Door Chime Button
- Tamper Output
- IP65

ELECTRICAL CHARACTERISTICS

Power Input	DC 12V, from a power supply
Maximum Input Current	60 mA at DC 12V
Standby Input Current	25 mA at DC 12V
Relay Output Loading	Max. 2 amps N.O. or N.C. (lock relays)
AL- Output Loading	Max. 500 mA at AC 12V

OPERATIONAL CHARACTERISTICS

P.B. Input (REX)	N.O. (dry contact) for activating the lock relay
Pin-Codes	99 PIN Codes (4-8 Digits)
LED Indication	2 LEDs: Power/ Program, Lock Out and Aux Out status

ENVIRONMENTAL CHARACTERISTICS

IP Rating	IP65
Operating Humidity	0% to 95% Non-condensing
Operating Temperature	- 20°C to 60°C

PHYSICAL CHARACTERISTICS

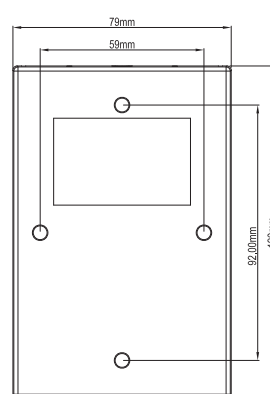
Dimensions	86 (W) x 86 (H) x 10 (D) mm
Weight (Approx.)	135g



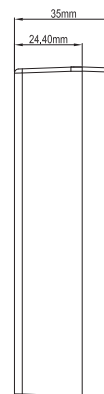
MKP-3010



MKP-3020



Back



Side

- 3 LEDs Display
- 99 PIN Codes (4-8 Digits)
- 2 Programmable Relay Outputs
- Door Monitor Function
- Door Chime Button (MKP-3020 only)
- Alarm Signal Output
- AC/DC 12-24V
- IP65

ELECTRICAL CHARACTERISTICS

Power Input	AC or DC 12V to 24V, from a regulated power supply
Maximum Input Current	200 mA at DC 12V
Standby Input Current	85 mA at DC 12V
Relay Output Loading	Max. 3 amps N.O. or N.C. (lock & aux. relays)

OPERATIONAL CHARACTERISTICS

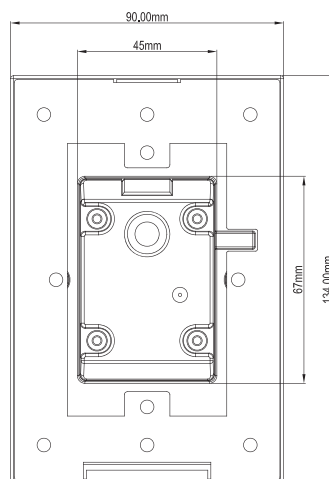
P.B. Input (REX)	N.O. (dry contact) for activating the lock relay
REED Input	N.C. (dry contact) for door monitoring
Pin-Codes	99 PIN Codes (4-8 Digits)
LED Indication	3 LEDs: Power/ Program, Lock Out and Aux Out status

ENVIRONMENTAL CHARACTERISTICS

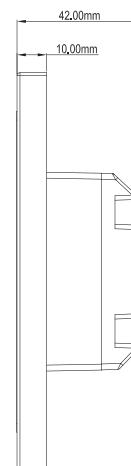
IP Rating	IP65
Operating Humidity	0% to 95% Non-condensing
Operating Temperature	- 20°C to 60°C

PHYSICAL CHARACTERISTICS

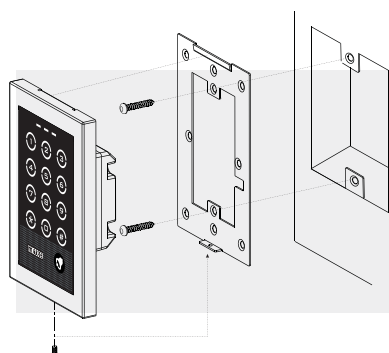
Dimensions	79 (W) x 120 (H) x 35 (D) mm
Weight (Approx.)	470g



Back



Side



- 3 LEDs Display
- 99 PIN Codes (4-8 Digits)
- 2 Programmable Relay Outputs
- Door Monitor Function
- Door Chime Button
- Alarm Signal Output
- AC /DC 12-24V
- IP65

ELECTRICAL CHARACTERISTICS

Power Input	AC or DC 12V to 24V, from a regulated power supply
Maximum Input Current	110 mA at DC 12V
Standby Input Current	75 mA at DC 12V
Relay Output Loading	Max. 3 amps N.O. or N.C. (lock & aux. relays)
AL- Output Loading	Max. 500 mA at DC 12V

OPERATIONAL CHARACTERISTICS

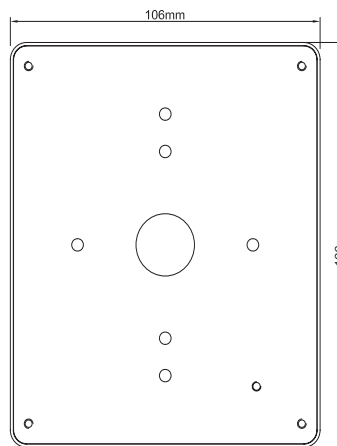
P.B. Input (REX)	N.O. (dry contact) for activating the lock relay
REED Input	N.C. (dry contact) for door monitoring
Pin-Codes	99 PIN Codes (4-8 Digits)
LED Indication	3 LEDs: Power/ Program, Lock Out and Aux Out status

ENVIRONMENTAL CHARACTERISTICS

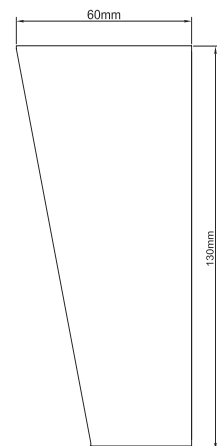
IP Rating	IP65
Operating Humidity	0% to 95% Non-condensing
Operating Temperature	- 20 °C to 60 °C

PHYSICAL CHARACTERISTICS

Dimensions	90 (W) x 134 (H) x 10-42 (D) mm
Weight (Approx.)	275g



Back



Side



- 3 LEDs Display
- 99 PIN Codes (4-8 Digits)
- Backlight Keys
- 2 Programmable Relay Outputs
- Door Monitor Function
- Alarm Signal Output
- AC/DC 12-24V
- IP54

ELECTRICAL CHARACTERISITICS

Power Input	AC or DC 12V to 24V, from a power supply
Maximum Input Current	160 mA at DC 12V
Standby Input Current	30 mA at DC 12V
Relay Output Loading	Max. 3 amps N.O. or N.C. (lock & aux. relays)
AL- Output Loading	Max. 500 mA at DC 12V

OPERATIONAL CHARACTERISITICS

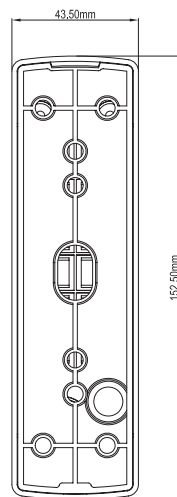
P.B. Input (REX)	N.O. (dry contact) for activating the lock relay
REED Input	N.C. (dry contact) for door monitoring
Pin-Codes	99 PIN Codes (4-8 Digits)
LED Indication	3 LEDs: Power/ Program, Lock Out and Aux Out status

ENVIRONMENTAL CHARACTERISITICS

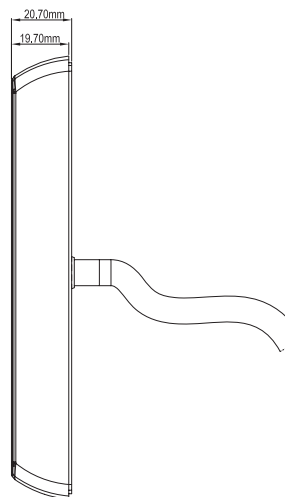
IP Rating	IP54
Operating Humidity	0% to 95% Non-condensing
Operating Temperature	- 20°C to 60°C

PHYSICAL CHARACTERISITICS

Dimensions	106 (W) x 130 (H) x 36 - 60 (D) mm
Weight (Approx.)	820g



Back



Side



- 3 LEDs Display
- 99 PIN Codes (4-8 Digits)
- Backlight Keys
- 2 Programmable Relay Outputs
- Door Monitor Function
- Alarm Signal Output
- AC/ DC 12-24V
- IP65

ELECTRICAL CHARACTERISTICS

Power Input	AC or DC 12V to 24V, from a power supply
Maximum Input Current	75 mA at DC 12V
Standby Input Current	35 mA at DC 12V
Relay Output Loading	Max. 3 amps N.O. or N.C. (lock & aux. relays)
AL- Output Loading	Max. 500 mA at DC 12V

OPERATIONAL CHARACTERISTICS

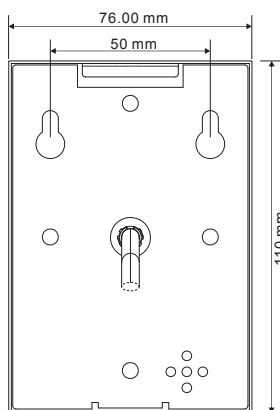
P.B. Input (REX)	N.O. (dry contact) for activating the lock relay
REED Input	N.C. (dry contact) for door monitoring
Pin-Codes	99 PIN codes (4-8 Digits)
LED Indication	3 LEDs: Power/ Program, Lock Out and Aux Out status

ENVIRONMENTAL CHARACTERISTICS

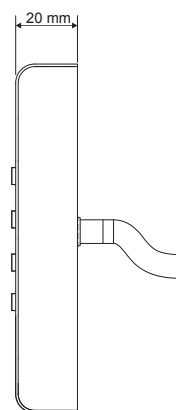
IP Rating	IP65
Operating Humidity	0% to 95% Non-condensing
Operating Temperature	- 20°C to 60°C

PHYSICAL CHARACTERISTICS

Dimensions	43.5 (W) x 152.5 (H) x 20.7 (D) mm
Weight (Approx.)	395g



Back



Side

- 3 LEDs Display
- 99 PIN Codes (4-8 Digits)
- Backlight Keys
- 2 Programmable Relay Outputs
- Door Monitor Function
- Alarm Signal Output
- AC/ DC 12-24V
- IP65

ELECTRICAL CHARACTERISTICS

Power Input	AC or DC 12V to 24V, from a regulated power supply
Maximum Input Current	75 mA at DC 12V
Standby Input Current	40 mA at DC 12V
Relay Output Loading	Max. 3 amps N.O. or N.C. (lock & aux. relays)
AL- Output Loading	Max. 500 mA at DC 12V

OPERATIONAL CHARACTERISTICS

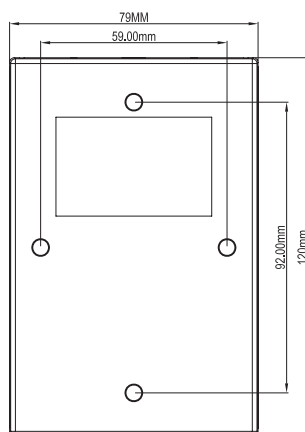
P.B. Input (REX)	N.O. (dry contact) for activating the lock relay
REED Input	N.C. (dry contact) for door monitoring
Pin-Codes	99 PIN codes (4-8 Digits)
LED Indication	3 LEDs: Power /Program, Lock Out and Aux Out status

ENVIRONMENTAL CHARACTERISTICS

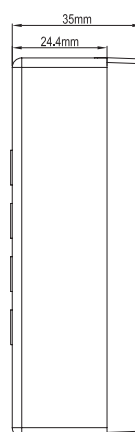
IP Rating	IP65
Operating Humidity	0% to 95% Non-condensing
Operating Temperature	- 20°C to 60°C

PHYSICAL CHARACTERISTICS

Dimensions	76 (W) x 110 (H) x 20 (D) mm
Weight (Approx.)	425g



Back



Side

- 3 LEDs Display
- 99 PIN Codes (4-8 Digits)
- Backlight Keys
- 2 Programmable Relay Outputs
- Door Monitor Function
- Alarm Signal Output
- AC/ DC12-24V
- IP65

ELECTRICAL CHARACTERISTICS

Power Input	AC or DC 12V to 24V, from a regulated power supply
Maximum Input Current	140 mA at DC 12V
Standby Input Current	45 mA at DC 12V
Relay Output Loading	Max. 3 amps N.O. or N.C. (lock & aux. relays)
AL- Output Loading	Max. 500 mA at DC 12V

OPERATIONAL CHARACTERISTICS

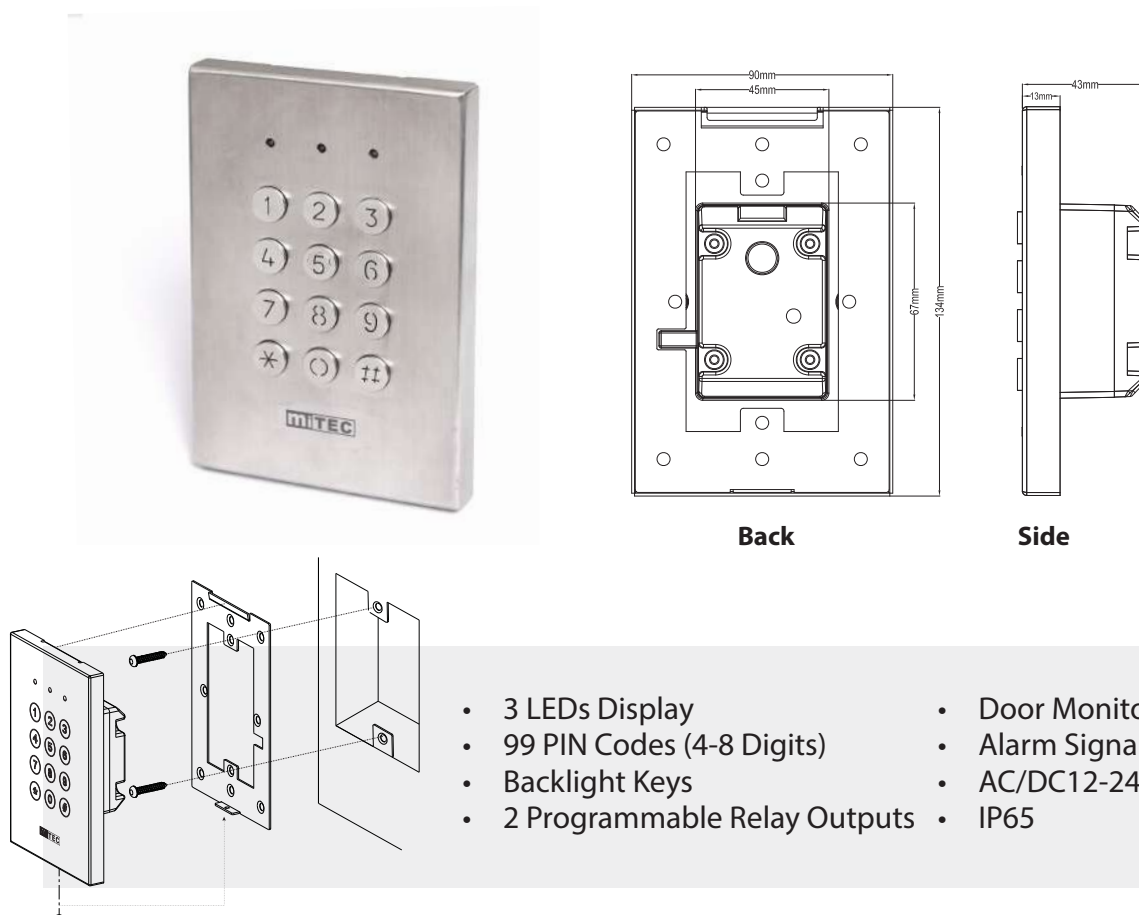
P.B. Input (REX)	N.O. (dry contact) for activating the lock relay
REED Input	N.C. (dry contact) for door monitoring
Pin-Codes	99 PIN codes (4-8 Digits)
LED Indication	3 LEDs: Power/ Program, Lock Out and Aux Out status

ENVIRONMENTAL CHARACTERISTICS

IP Rating	IP65
Operating Humidity	0% to 95% Non-condensing
Operating Temperature	- 20°C to 60°C

PHYSICAL CHARACTERISTICS

Dimensions	79 (W) x 120 (H) x 35 (D) mm
Weight (Approx.)	540g



ELECTRICAL CHARACTERISTICS

Power Input	AC or DC 12V to 24V, from a regulated power supply
Maximum Input Current	75 mA at DC 12V
Standby Input Current	40 mA at DC 12V
Relay Output Loading	Max. 3 amps N.O. or N.C. (lock & aux. relays)
AL- Output Loading	Max. 500 mA at DC 12 V

OPERATIONAL CHARACTERISTICS

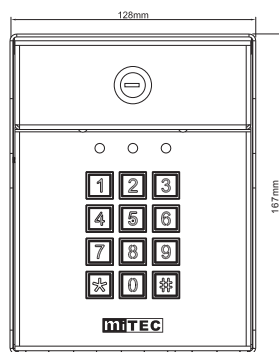
P.B. Input (REX)	N.O. (dry contact) for activating the lock relay
REED Input	N.C. (dry contact) for door monitoring
Pin-Codes	99 PIN codes (4-8 Digits)
LED Indication	3 LEDs: Power/ Program, Lock Out and Aux Out status

ENVIRONMENTAL CHARACTERISTICS

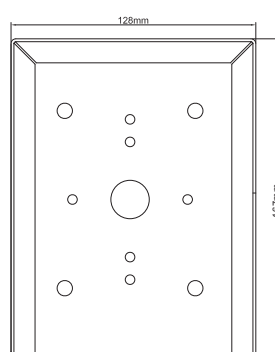
IP Rating	IP65
Operating Humidity	0% to 95% Non-condensing
Operating Temperature	- 20°C to 60°C

PHYSICAL CHARACTERISTICS

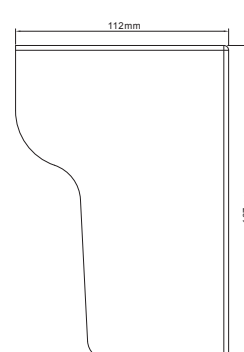
Dimensions	90 (W) x 134 (H) x 12 - 43 (D) mm
Weight (Approx.)	425g



Front



Back



Side



- 3 LEDs Display
- 99 PIN Codes (4-8 Digits)
- Backlight Keys
- 2 Programmable Relay Outputs
- Door Monitor Function
- Alarm Signal Output
- AC/DC12-24V
- IP54

ELECTRICAL CHARACTERISTICS

Power Input	AC or DC 12V to 24V, from a power supply
Maximum Input Current	160 mA at DC 12V
Standby Input Current	30 mA at DC 12V
Relay Output Loading	Max. 3 amps N.O. or N.C. (lock & aux. relays)
AL- Output Loading	Max. 500 mA at DC 12V

OPERATIONAL CHARACTERISTICS

P.B. Input (REX)	N.O. (dry contact) for activating the lock relay
REED Input	N.C. (dry contact) for door monitoring
Pin-Codes	99 PIN codes (4-8 Digits)
LED Indication	3 LEDs: Power/ Program, Lock Out and Aux Out status

ENVIRONMENTAL CHARACTERISTICS

IP Rating	IP54
Operating Humidity	0% to 95% Non-condensing
Operating Temperature	- 20°C to 60°C

PHYSICAL CHARACTERISTICS

Dimensions	128 (W) x 167 (H) x 112 (D) mm
Weight (Approx.)	1.6 kg

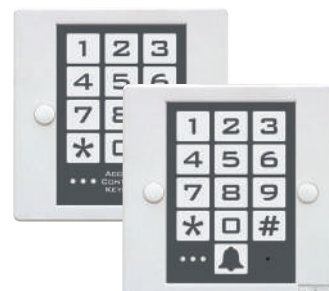
Anti-magnetic Digital Keypad

- Power Input: DC 12V
- Display & Audible Indication
- 99 PIN Codes (4~8 Digits)
- Programmable Lock Output (max 2A)
- P.B. for Door Release
- Surface Mount Plastic Housing



MKP-1311 / MKP-1321

- Door Bell Button (MKP - 1321 only)
- Dimensions : 115W x 120H x 22D mm



MKP-1211 / MKP-1221

- Door Bell Button (MKP - 1221 only)
- Dimensions : 86W x 86H x 20D mm

Multi-functional Digital Keypad

- Power Input: AC/ DC 12V
- LED Display & Audible Indication
- 99 PIN Codes (4~8 Digits)
- 2 Programmable Relay Output
- Door Monitoring Function
- Alarm Signal Output
- Surface Mount ABS Housing
- Dimensions : 115W x 120H x 22D mm



MKP-1310



MKP-2320

US Type Keypad

- Power Input: AC/ DC 12V
- LED Display & Audible Indication
- 99 PIN Codes (4~8 Digits)
- Lock Output : N.O. / N.C. (Max. DC 24V / 5A)
- Aux Output : N.O. only (Max. 300mA)
- Tamper Output
- Push Button for Door Release
- Flush/ Surface Mount
- Stainless Steel Panel with Plastic Box (for Surface Mount)
- Dimensions : 70W x 114H x 46D mm



MKP-1610

**MDR-110**

- IR Sensor for Door Release
- Built-In Emergency Button
- Stainless Steel Faceplate
- Contact : 125V/ 3A, N.O. / N.C.

**MDR-110 Side View**

- Latch or Timer Output
- Power Input : DC 12V
- Dimensions: 86 (L) x 86 (H) mm

**MDR-110P**

- IR Sensor for Door Release
- Built-In Emergency Button
- Plastic Faceplate
- Contact : 125V/ 3A, N.O. / N.C.
- Latch or Timer Output
- Power Input: DC 12V
- Dimensions: 86 (L) x 86 (H) mm

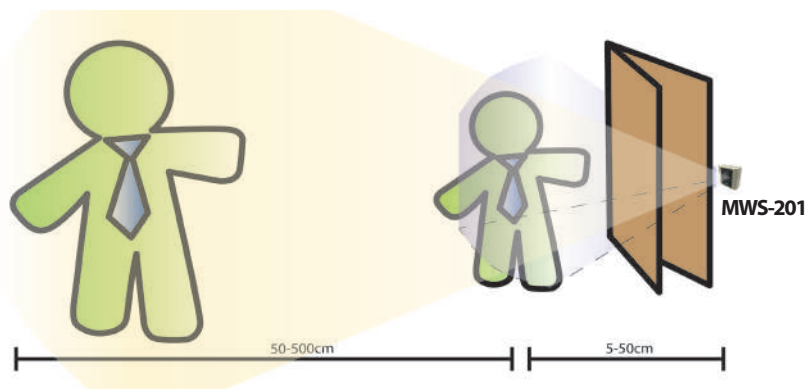
**MDR-IR86**

- IR Sensor for Door Release
- Stainless Steel Faceplate
- 2 Outputs with Dual Colour LEDs Indication
- Buzzer Control
- Adjustable Sensor Distance
- Timer Mode
- Power Input: DC 12-24V
- Dimensions: 87.5 (L) x 87.5 (H) mm

Microwave Door Sensor



MWS-201



- Plastic Faceplate
- Wall or Ceiling Mount
- Adjustable Relock Timer
- Adjustable Sensor Range

- Contact Rated: 1 N.C. 1 N.O., DC 30V /3A or AC 120V
- Power Input: DC 12V
- Dimension: 86 (W) x 86 (H) x 30 (D) mm,
- Weight: 102g

Piezoelectric Switch with Stainless Steel Plate



MDR-350/US

Dimension: 70 (W) x 116 (H) x 32 (D)



MDR-350/UK

Dimension: 86 (W) x 86 (H) x 32 (D) mm



MDR-350/SLIM

Dimension: 43 (W) x 116 (H) x 32 (D) mm

- Flush Mount (IP65)
- Selectable Illumination Status Feature
- Contact Rated: DC 30V/ 2A

- Latch or Time Relay Output (2N.O./ 2N.C.)
- Power Input: DC 12 - 24V

**MSA-10**

- Stainless Steel Panel
- Flush Mount Type
- Push Button (N.O. Only)
- Contact Rating: DC16V/ 50 mA
- Dimensions: 25 (W) x 55 (H) mm

**MSA-20A/GN****MSA-21**

- Stainless Steel Panel
- Flush Mount Type
- Push Button (N.O. Only)
- Contact Rating: DC16V/ 50 mA
- Dimensions: 32 (W) x 86 (H) mm

**MSA-30A/GN**

- LED Press To Exit Button
- Stainless Steel Panel
- Flush Mount Type
- Push Button (N.O. Only)
- LED Colour: Green
- Input Voltage For LED: DC 9-30V
- Contact Rating: DC 30V/ 2 mA
- Dimensions: 87.5 (W) x 87.5 (H) mm

**MSA-31**

- Door Bell Button
- Stainless Steel Panel
- Flush Mount Type
- Push Button (N.O. Only)
- Contact Rating: DC 12V/ 5 mA
- Dimensions: 87.5 (W) x 87.5 (H) mm



MDR-210/MDR-212

- Dome Exit Button
- SPDT/ DPDT Micro Switch
- Stainless Steel Panel
- UK Type
- Dimensions: 87.5 (W) x 87.5 (H) mm



MDR-410/UK

- Dome Exit Button
- Power Input: DC 12~24V
- Latch or Timer Output: 2 N.O./ N.C.
- Contact Rating: DC 30V/ 1A
- Dimensions: 87.5 (W) x 87.5 (H) mm



MDR-201 / MDR-202

- Press To Exit Button
- ABS Plastic Panel
- Flush Mount
- SPDT Micro Switch
- SPDT Micro Switch x 2 (MDR-202 Only)
- Dimensions: 82.3 (W) x 82.3 (H) mm



MDR-204

- Press To Exit Button
- ABS Plastic Panel
- Flush Mount
- SPST OFF-(ON)
- BS Type
- Engraving "PRESS TO EXIT"
- Dimensions: 86 (W) x 86 (H) mm

**MDR-206/SLIM**

Dimensions:
44 (W) x 89 (H) mm

**MDR-206/UK**

Dimensions:
86 (W) x 86 (H) mm

- Dome Exit Button
- ABS Plastic Panel
- With Surface Mount Box
- SPDT Micro Switch

**MDR-216/SLIM**

Dimensions:
41 (W) x 85 (H) mm

**MDR-216/UK**

Dimensions:
86 (W) x 86 (H) mm

- Dome Exit Button
- ABS Plastic
- With Surface Mount Box
- SPDT Micro Switch
- Back Light (DC 12V)



MDR-100 Push Button

- Stainless Steel Panel
- Surface Mount Type
- Contact Rating: DC30V / 3.0A
- Dual Color Indication (Green/Red)
- Operating Voltage: DC12V
- Dimensions: 86 (W) x 86 (H) mm



MDR-120 Touch Sensor

- Stainless Steel Panel
- Surface Mount Type
- Contact Rating: DC30V / 3.0A
- Dual Color Indication (Green/Red)
- Operating Voltage: DC12V
- Dimensions: 86 (W) x 86 (H) mm

- Illuminated Button with Key logo
- Stainless Steel Faceplate
- Contact Rated : DC30V / 0.1A
- Power Input : DC12~24V



MSA-42

Dimensions:
43 (W) x 115 (H) mm



MSA-32

Dimensions:
87.5 (W) x 87.5 (H) mm



MEC-EP01
Interior Panel

'Vacant' in green light



LED
Display



'Occupied' in red light



MEC-EP02
Exterior Panel



- Power Input : DC 12V
- Mount Type : Flush Mount
- Trigger E-Lock System
- Durable Stainless Steel Panel
- Dimensions : 88 (L) x 18 (W) x 228 (H) mm

- Emergency Unlock By Key
- MVCS-100 Voice Control System (Optional)

LED Indication :

- Red (Occupied)
- Green (Vacant)

Voice Note for MVCS-100 Voice Control System (Optional)

Interior Panel

- Voice note 'Door close'
- Voice note 'Door open'

Exterior Panel

- Voice note 'The toilet is occupied'
- Voice note 'The door is opening'



Door Status Indicator (NC)

- Door lock sensor



E-Lock (NO)

- Door Open/Close triggers voice output



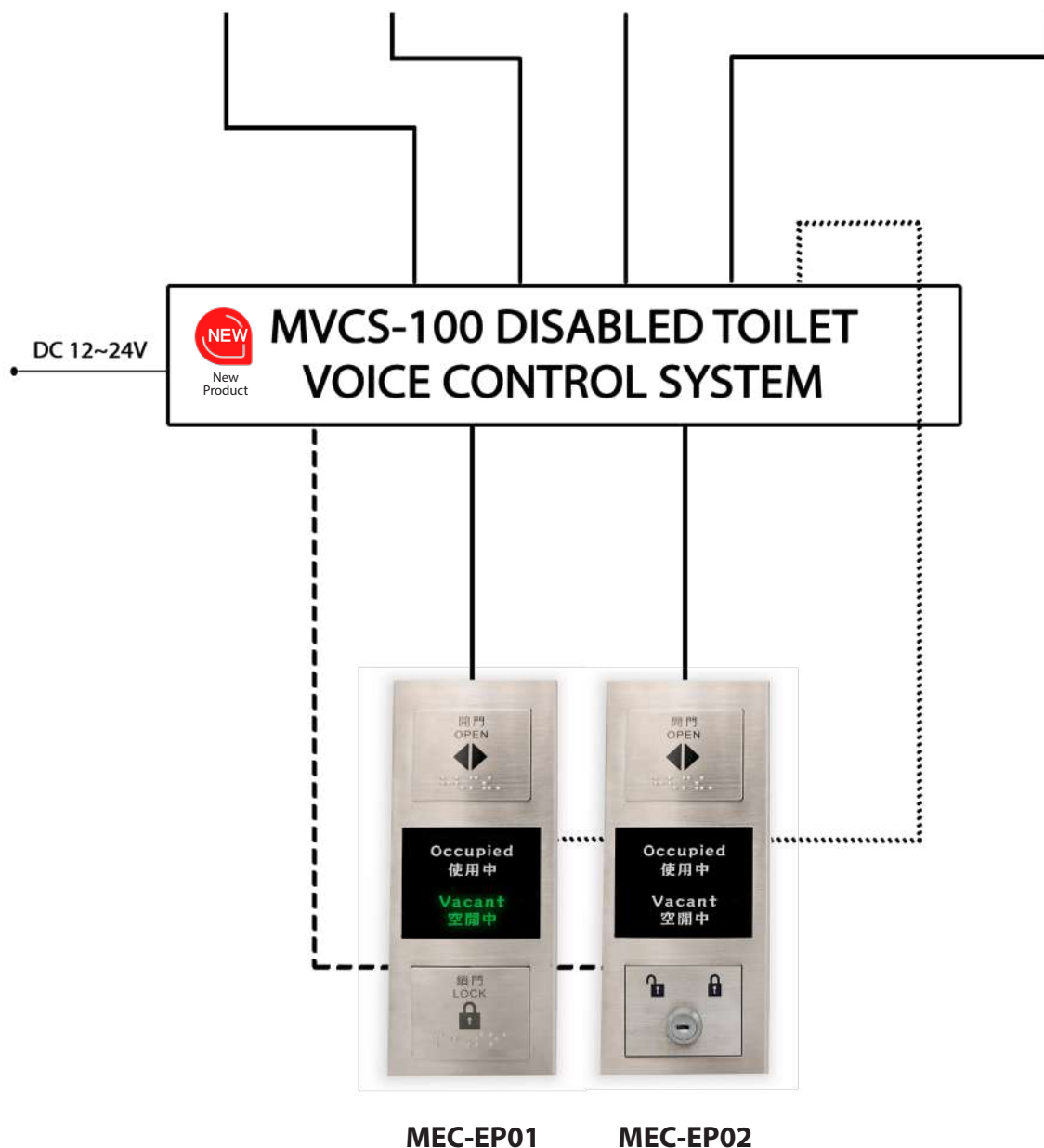
Emergency Push Button

- Triggers E-Lock & Alarm output



Amplifier

- 8 Ω amplifier (Optional)



Configuration

Vacant / Occupied



MSA-221

- Plastic Faceplate
- DC 12~24V
- Dimensions : 86 (L) x 86 (W) x 12 (H) mm
- Weight : 66g

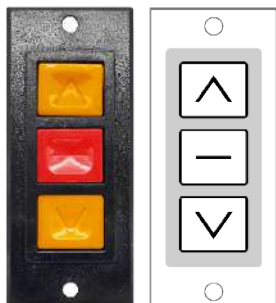
Door Open / Locked with Voice Over Function



MSA-222/REC

- Plastic Faceplate
- DC 12~24V
- Operating Current : 50 mA Max. (Standby) / 200 mA Max. (Activation)
- Voice Over Languages : Cantonese / English / Chinese
- 8Ω, 1.5W Built-In Amplifier (Volume Adjustable)
- Dimensions : 86 (L) x 86 (W) x 32 (H) mm
- Weight : 124g

Up/Stop/Down 3-Way Push Switch & Enclosure



MSW-100



MB-100DL



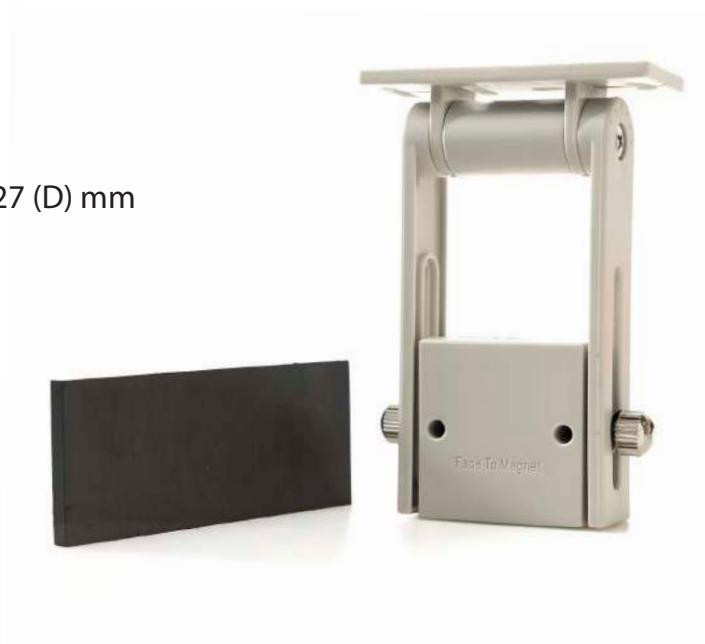
MSW-100 + MB-100DL

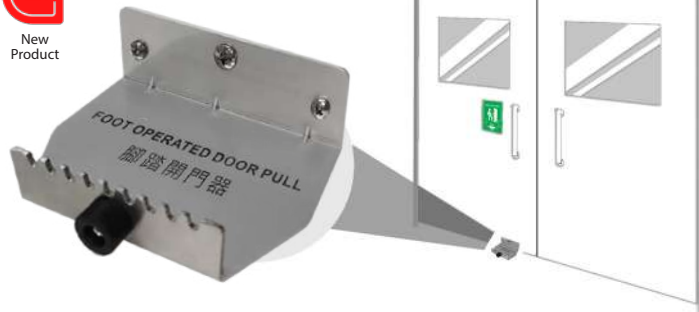
- Up/Stop/Down 3 Way Push Switch
- Max. AC 600V, 3A
- Dimensions: 42 (W) x 100 (H) mm
- Stainless Steel Enclosure
- Two Keys included
- Dimensions: 90 (W) x 130 (H) x 61.5 (D) mm

Door & Roller Shutter (Roller Shutter)

MMC-101

- Over Head Adjustable Type
- Magnetic Contact NC
- Standard Gap 60mm
- Dimensions: 68 (W) x 14 (H) x 27 (D) mm



Foot Operated Door Pull (Electric Power Free)**MBK-D01**

- Foot Operated Door Pull
- Hands Free
- Electric Power Free
- Instruction Label Included
- Dimensions: 125 (W) x 75 (L) x 40 (H) mm



Instruction Label

DC 12V Door Bell



MDB-200

- B.S Type Flush Mount
- Dimensions : 86 (W) x 86 (H) mm



MDB-210

- With Button
- B.S Type Flush Mount
- Dimensions : 86 (W) x 86 (H) mm



MDB-225

- 25 Tracks Selectable
- Sound Level Control
- LED Music Flashing
- Dimensions : 86 (W) x 86 (H) mm

Outdoor Accessories



MDR-SS01

- Stainless Steel Sun Shield
- Dimensions : 140 W x 150 H x 80 D mm



MDR-SS11

- Stainless Steel Sun Shield
- Dimensions : 140 W x 150 H x 110 D mm



MRS-01

- Stainless Steel Sun Shield
- Dimensions : 140 W x 150 H x 80 D mm



MKP-1310/RS

- Plastic Rain Shield
- Dimensions : 140 W x 150 H x 110 D mm

Stainless Steel Surface Box



Dimension		Side view
MBX - K01 / SS	87 W x 87 H x 80 D mm	
MBX - K02 / SS	87 W x 87 H x 50 D mm	
MBX - K21 / SS	87 W x 146 H x 38 D mm	
MBX - K22 / SS	87 W x 146 H x 55 D mm	
MBX - K03 / SS	87 W x 87 H x 40/65 D mm	
MBX - K23 / SS	87 W x 146 H x 40/65 D mm	
MBX - S02 / SS	87 W x 115 H x 38 D mm	
MBX - S01 / SS	70 W x 115 H x 55 D mm	

Door-Loop With Junction Box



Door-Loop With Junction Box	
MDL-1041/W	4 C White Color (1/FT Cable)
MDL-1061/W	6 C White Color (1/FT Cable)
MDL-2041/W	4 C White Color (Coil Cable)

Flexible Cable Tube



Cable Tube	
SFT - 0704	ø 7.8 x 400 (L) mm
SFT - 0706	ø 7.8 x 600 (L) mm
SFT - 0710	ø 7.8 x 1000 (L) mm
SFT - 0720	ø 7.8 x 2000 (L) mm
SFT - 1204	ø 12.5 x 400 (L) mm
SFT - 1210	ø 12.5 x 1000 (L) mm
SFT - 1510	ø 15.7 x 1000 (L) mm
Fix Holder	
CP - 07	ø 7.8 mm
CP - 12	ø 12 mm
End Holder	
EH - 07	ø 7.8 mm
EH - 12	ø 12 mm