Manuals+ — User Manuals Simplified.

AUTOSLIDE AutoSwing Automatic Door System Instruction Manual

Contents

AUTOSLIDE AutoSwing Automatic Door System

Product Information

The AutoSwing Automatic Door Operator is a slimline design operator that provides a high standard of performance. It comes with both push arm and slide arm configurations, allowing for seamless operation of the doorway. The AutoSwing Operator has a low height of only 2.25 inches (60mm) which allows it to be fitted to a transom header. It has endcaps LED indicator lights, showing different mode settings and a clip on/off replaceable Lithium battery. It also has a powder-coated door guide cover to blend in with your existing door texture. The operator type is Hinged Door, Swing Door and it has an ambient temperature of 0-23 degrees Celsius. The AutoSwing Automatic Door Operator complies with UL/FFC safety protocol and has communication protocols such as RF, Bluetooth, RS485, and Dry Contacts.

Product Usage Instructions

1. Choose the pull arm if the door leaf opens towards the inside and the push arm if the door leaf opens towards the outside.
2. Using a flat screwdriver, clip off the safety cover and plug in the power cable into the back of the AutoSwing.
3. If using the slide arm, remove the cover and endcaps of the rail. Keep the door fully closed and slide the rail along the ball of the arm. Hold the rail up to the door panel where it will mount and drill in the rightmost screw. Open the door almost fully and drill in the leftmost screw, using the ball to keep the rail level.
4. Before turning on, move the door halfway open, and power your AutoSwing back on. It should immediately start to close. If it starts to open, power off your AutoSwing, reverse DIP switch #1, and power your AutoSwing back on. It should then start to close. Make sure DIP switch #6 is ON to enable Bluetooth connection.

What's in the Box

- AutoSwing Operator
- Door Track
- L Bracket
- Extension pinion
- Two Touch Buttons
- Push/Pull Arm (Out-swing Door) or Slide Arm with Rail and Cover (In-swing Door)
- Power Supply
- Screw Packet
- Backup Battery (Pro Version)
- Four Button Remote (Pro Version)
- E-Lock Calbe Connector
- Fixation Screws

- ST4,8 x 32 CROSS RECESSED COUNTERSUNK * 8 pcs
- ST4,8 x 38 CROSS RECESSED COUNTERSUNK * 8 pcs
- M5 x 10 Mounting bracket fixing screw * 6 pcs

Tools Needed for the installation

- Allen wrench – you will need to get the size of the different Allen screws to make sure installers are prepared. I be-lieve there are two different sizes used between the screw to keep arm in place and the screw on the push/pull arm.
- Sockets/Wrench – the push/pull arm has bolts that secure it in the position you want. Need to know that bolt size so you can specify the tool
- Drill – with bit to drive screws and drill bit to create holes
- Flathead to pop off covers and remove molding/trim
- Level
- Screws – metal, dry wall with anchors, or wood depending on installation scenario
- Hack Saw – to cut trim/molding or slide bar if too long for door

TECHNICAL INFORMATION
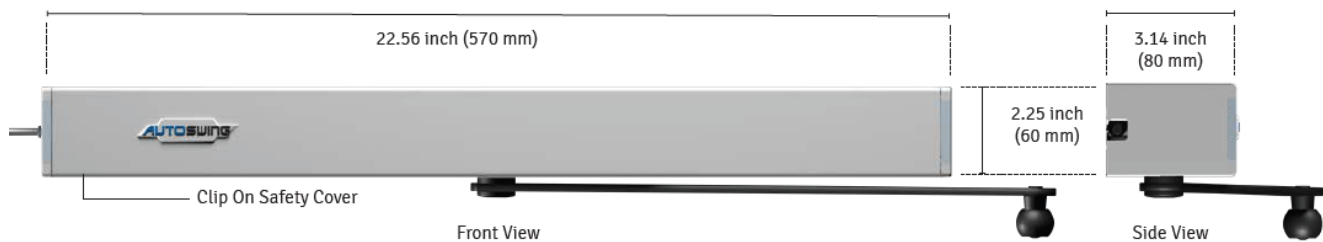
Features
The AutoSwing Automatic Door Operator offers a high standard of performance within a slimline design.
The low height of only 2.25 inches (60mm) allows the AutoSwing Operator to be fitted to a transom header.
The system comes with both push arm and slide arm configurations, the combination of these design features and the almost silent operation of the mechanism give the doorway a seamless operation where the door appears to open as if by magic.

Operator Features and Performance

- Compact slim design
- Heavy-duty 24V motor
- Hi-Tech modularised and packed with features
- Up to 220.5 lb (100kg) door weight
- Touchless control sensor
- Integrates with Smart Locks
- Grant or deny access from the app
- Motion sensor activation
- Grant or limit access to family, friends and service personnel remotely
- Pet access

- Touchless privacy lock for bathroom door

- Endcaps with LED indicator lights

- Integration with electric latching and Mag locks

- Compatible with: Yale and August smart locks. (This option requires the AutoPlus Gateway, see page 16)

- Endcaps LED Indicator lights, showing different mode settings.

- Clip on/off replaceable Lithium battery.

- Powder coated door guide cover, to blend in with your existing door texture.


Technical specifications

Operator type	Hinged Door, Swing Door		Hold open time	0-23s
Door opening width	47' (1200 mm)		Ambient temperature	14 ºF to 140 ºF (-10ºC to 60ºC)
Door weight	198.4 lb (up to 90 Kg)		Drive weight unit	7 lb (3 Kg)
Power input	100-240VAC 50/60hz(+,-10%)		Complies with:	UL/FFC
Auxiliary voltage	24 VDC @220mA		Electro-mechanical locking integration	Mag Lock, Electric Strike, Electric Dead Bolt
SPDT relay output for controlling electric-strikes or electric locks not to exceed 2A 24 VDC			Power supply adaptor output	25Vdc, 2.6A 65watt
Opening speed	30degree/second for opening speed.15 degree/second for slow opening speed		Safety Protocol	Auto-Reverse, Safety Beams.
			Communication Protocols	RF, Blue-tooth, RS485, Dry Contacts
Closing speed	8 degree /s		Lithium Battery Back up	21.6V / 3200mAh

Components

OPERATOR
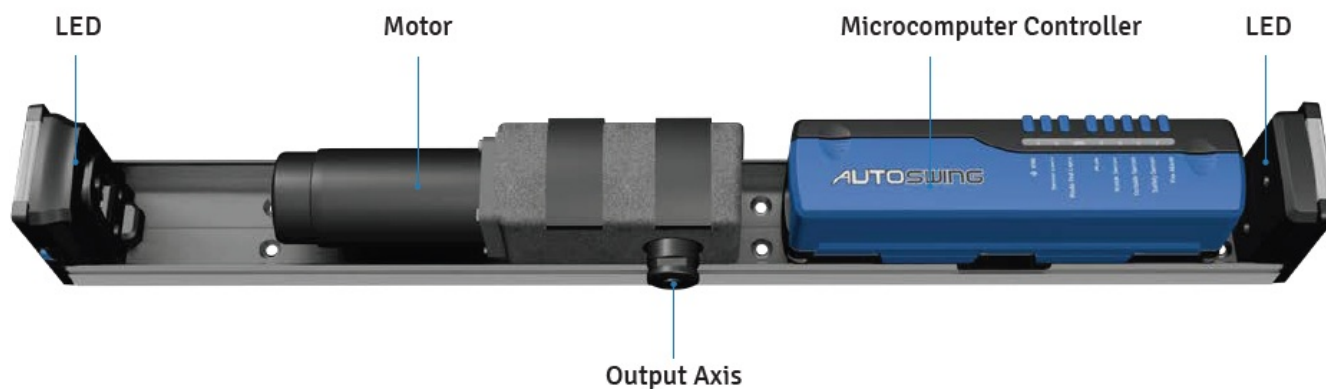
COVER

SLIDE ARM – IN-SWING

SLIDE ARM COVER

PUSH/PULL ARM – OUT-SWING

NOTE: AutoSwing comes with either one of the two arms.

INSTALLATION

INSTALLATION EXAMPLE

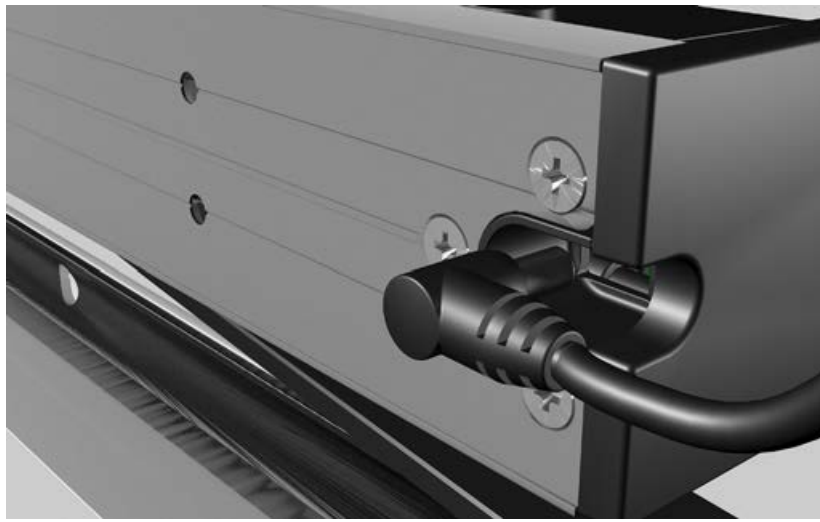Choose pull arm: Door leaf open toward inside (operator is inside)

Choose push arm: Door leaf open toward outside (operator is inside)

INSTALLATION OF THE BASE – PULL ARM/PUSH ARM
Using a flat screw driver, clip off the safety cover.

Plug the power cable into the back of the AutoSwing.

INSTALLATION OF THE BASE – SLIDE ARM FOR IN-SWING DOORS
Fully close the door. Fix the base on the frame with six countersunk wood screws, use a level throughout this process. Make sure the edge of the base is aligned to the edge of the door.

- If installing onto a right hinged door, align the right edge of the base to the right edge of the door.
- If installing onto a left hinged door, align the left edge of the base to the left edge of the door.
  Make sure the top of the ball of the arm is slightly below the top edge of the door panel. Ensure the bottom of
  the hinge of the arm does not hit the door panel as it opens

AutoSwing with Pull Arm on left hinged door (front view, hinges are on the left)


INSTALLATION OF THE BASE – PUSH/PULL ARM
Fully close the door. Fix the base on the frame with six countersunk wood screws, (if the frame is steel structure should use M6*15 hex countersunk head screws). Make sure the edge of the base is aligned to the edge of the door. Use a level throughout this process.
Make sure the base is just low enough so the arm is able to rotate freely without hitting or scraping against the frame of the door. Make sure the edge of the base is aligned to the edge of the door.

- If installing onto a right hinged door, align the left edge of the base to the back left edge of the door
- If installing onto a left hinged door, align the right edge of the base to the back right edge of the door.
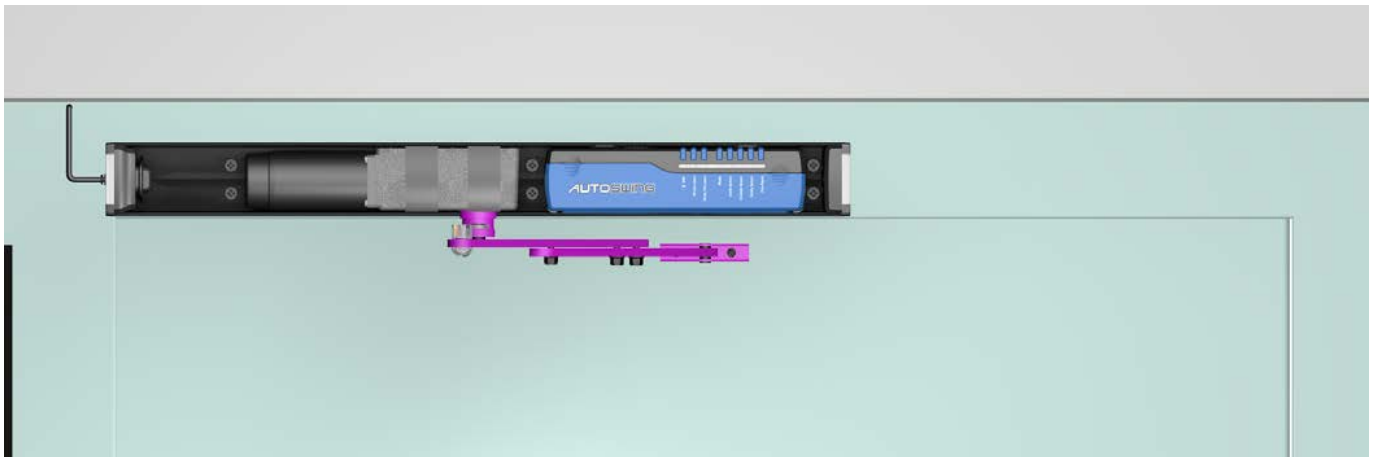
AutoSwing with Push Arm on left hinged door (back view, hinges are on the right)
NOTE: If you need additional distance to allow the arm to clear the top of the door frame, use the included pinion extender.

INSTALLATION – SLIDE ARM
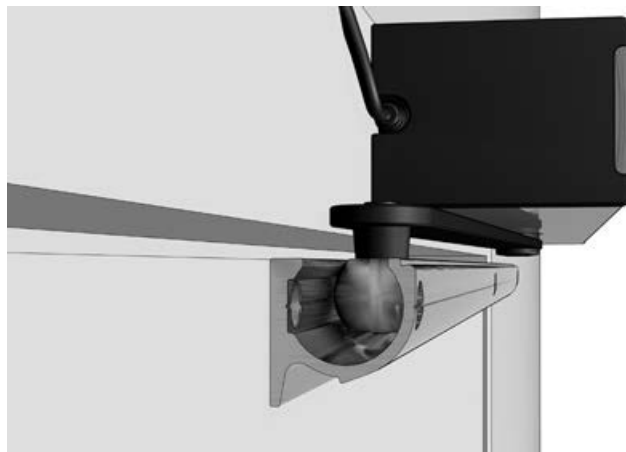

Remove the cover and endcaps of the rail.

Keep the door fully closed. If installing onto right hinged door, rotate the arm full to the left.

Slide the rail along the ball of the arm. Hold the rail up to the door panel where it will mount.

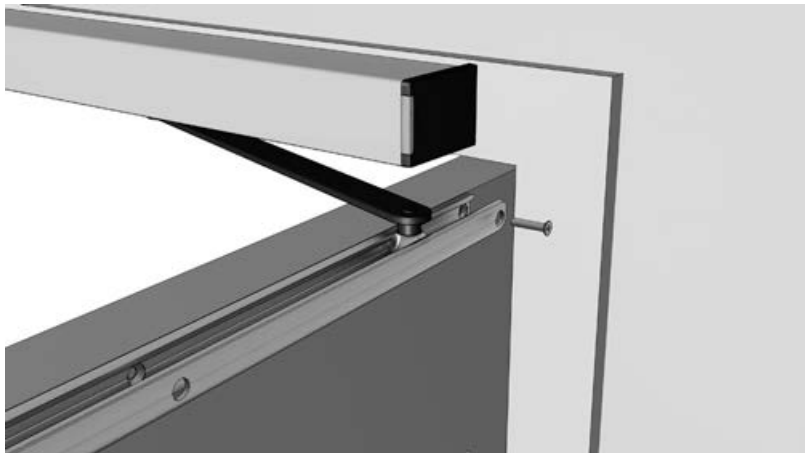The rail should be flush against the door panel.

The ball should be upwards in the rail.

Position the right edge of the rail an inch from the ball when the door is fully closed

Holding the rail in place, drill in the rightmost screw.

Open the door almost fully and drill in the leftmost screw, using the ball to keep the rail level.

POWERING ON AND INITIALIZING

Before turning ON move the door halfway open, and power your AutoSwing back on. It should immediately start to close. If it starts to open, power off your AutoSwing, reverse DIP switch #1, and power your AutoSwing back on. It should then start to close. Make sure DIP switch #6 is ON to enable Bluetooth connection.

Power the system on, if it starts to open the door immediately then power the system off and reverse DIP switch #1 then power the system on.
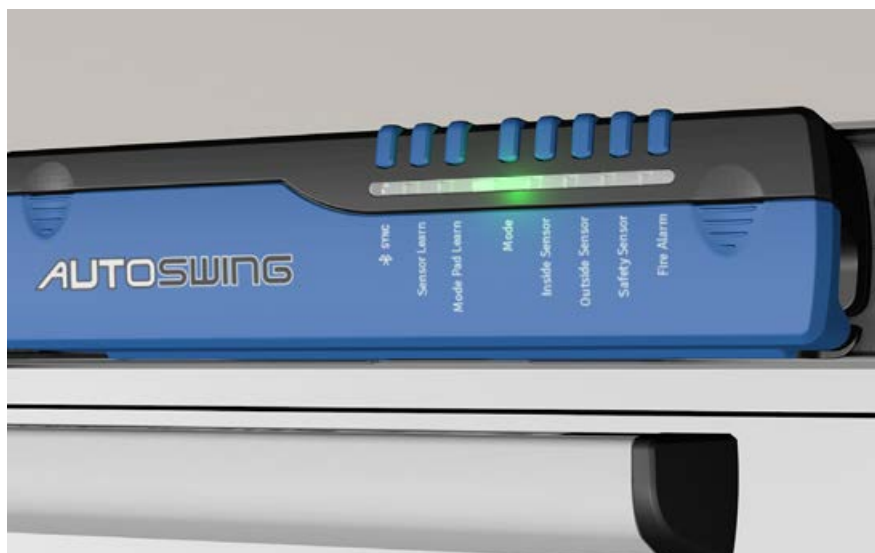
Using the MODE button, toggle to the Green mode.
The door should now start to swing open until it hits a jamb or doorstop.
Then the door will closes. If the unit has a solid Green mode light the door now is set.
By pressing the MODE button, you can toggle between different door settings:
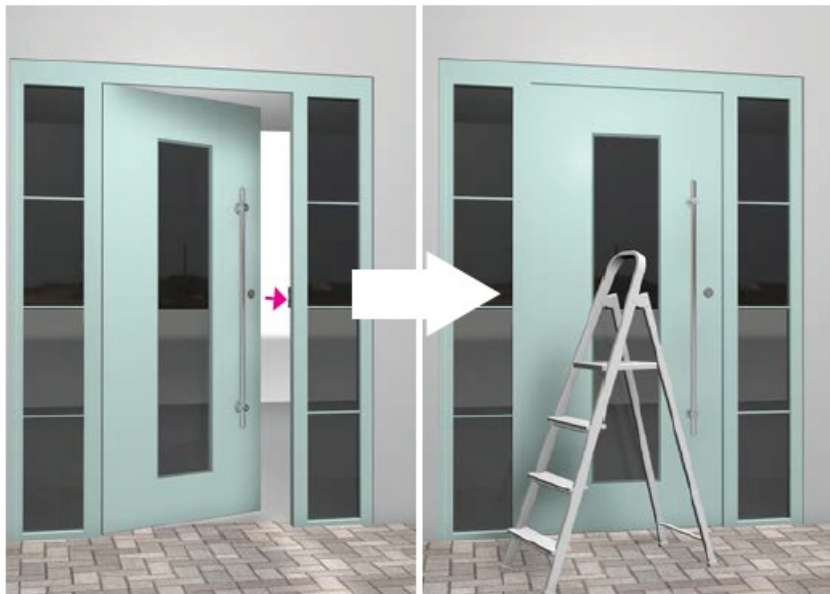
- Auto
- Lock
- Hold Open
- Pet Mode

Reverse DIP switch #1 twice. If it is set to ON, flip it OFF and immediately back ON. If it is set to OFF, flip it ON and immediately back OFF. A blue light will start flashing.
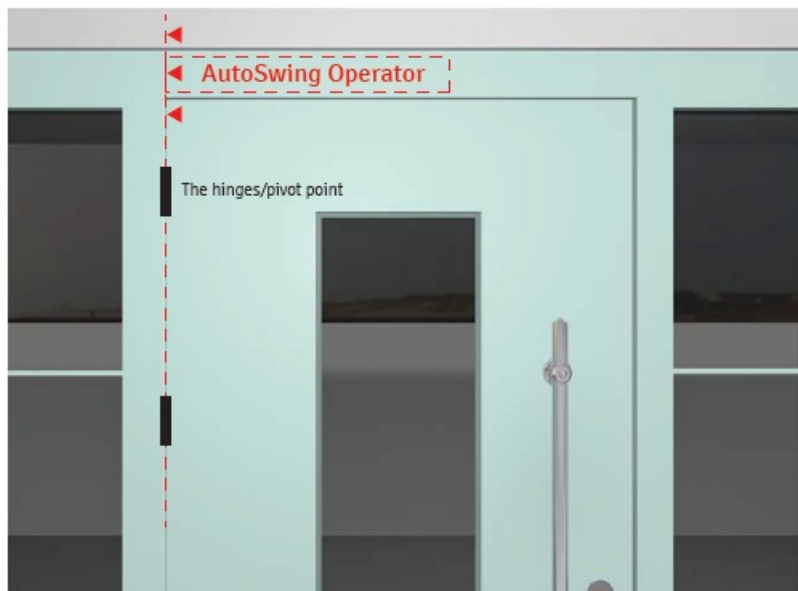

INSTALLATION – PUSH ARM

1. Before beginning, secure door so it does not move during installation and set up your ladder/stool.

2. The operator will need to be mounted so the edge of the AutoSwing aligns over the hinges or pivot position of the door. For an Out-swing Left-Hand Door, the left edge of the Au-toSwing aligns with the hinges/pivot point.
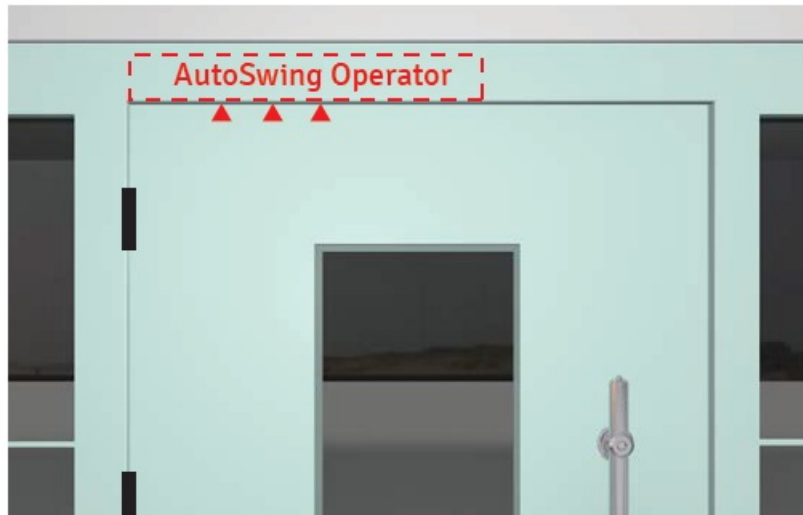

For an Out-swing Right-Hand Door, the right edge of the Au-toSwing aligns with the hinges/pivot point.

3. Prior to mounting the AutoSwing, you will want to plug in the power cable to the operator.

4. If there is molding or wood trim above the door, you will need to remove or cut it to allow space for a flush mount of the operator against the wall.

5. Once you have the door secure and power cord connected, position the operator and screw into position.
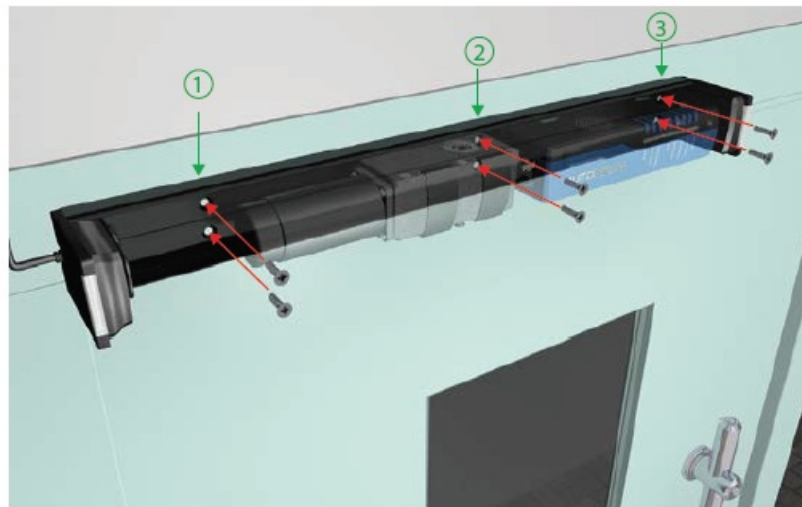
6. If you need additional distance to allow the arm to clear the top of the door frame, you need to order a pinion extender.
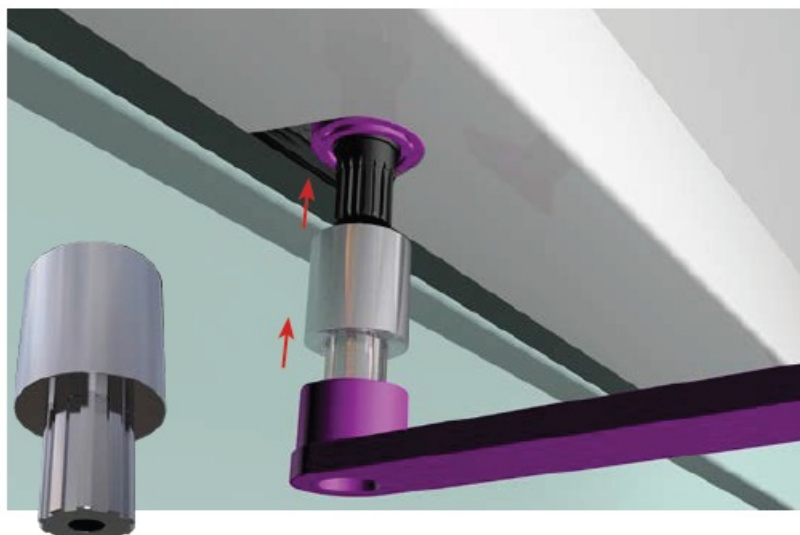
7. With the door closed, mount the bracket to the door just off-set of the edge of the AutoSwing that protrudes over the door. You may need to loosen the bolts on the arm to mount the bracket.

Bracket

Off-set the bracket

90°

8. Once the bracket is mounted, adjust the arm to a 90-degree triangle. Then tighten the bolts to lock arm in position.

9. Next, plug your AutoSwing in 110 outlet or complete the hardwiring of the operator.

10. Set Dip #1 to OFF and Dip #6 to ON before powering ON the system, power ON your operator using the power switch located under the left LED light. If the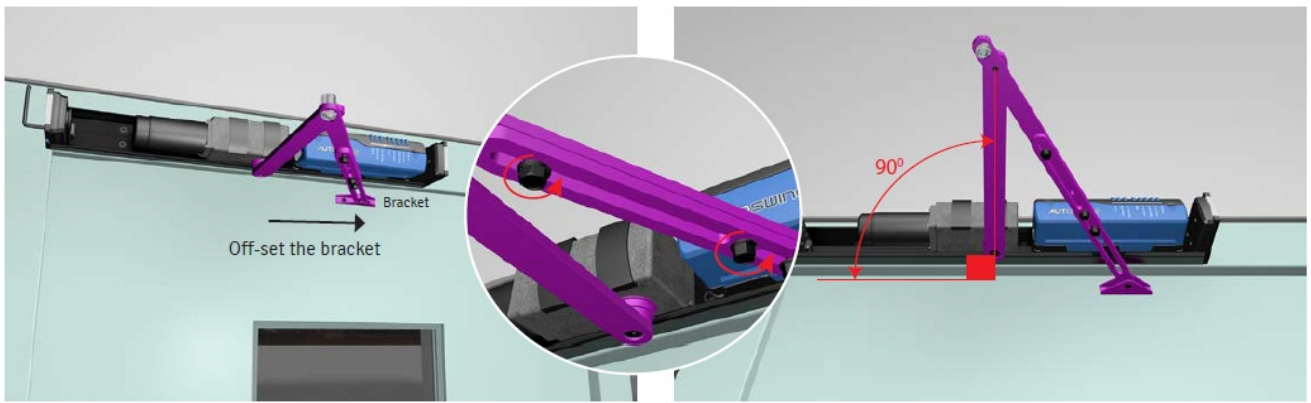 door begins to open. Turn the operator OFF and put Dip Switch #1 in the ON position (up). Then turn power back ON. Your door will find its closed position.

11. With the system on, you can now program your opening distances for Green/Red, Blue, and Pet Modes. Once programmed, you can connect and sync your sensors and controls to operate the AutoSwing. See section ___ on how to program your AutoSwing operator.

If you are connecting an electric lock, this is the step to do so.

- Maglock: From the lock, connect the power cable to the #5 hole on AutoSwing Lock Port. Then connect the ground wire to the #4 hole on the Lock Port.
- Electric Strike: Turn on Dip Switch #3 on the AutoSwing. From the lock, connect the power cable to the #5 hole on Au-toSwing Lock Port. Then connect the ground wire to the #4 hole on the Lock Port.
- Smart Lock: Open the Autoslide app and look in Settings to select the Smart Lock you want to integrate. Follow the instruc-tions in App. You may need an AutoPlus Gateway to complete the integration.

Electric Lock Connections:

Locker

eLock

Lockr: 24VDC, Max 220mA

N/O — 1
N/C — 2
Com — 3
GNDA — 4
+24V — 5
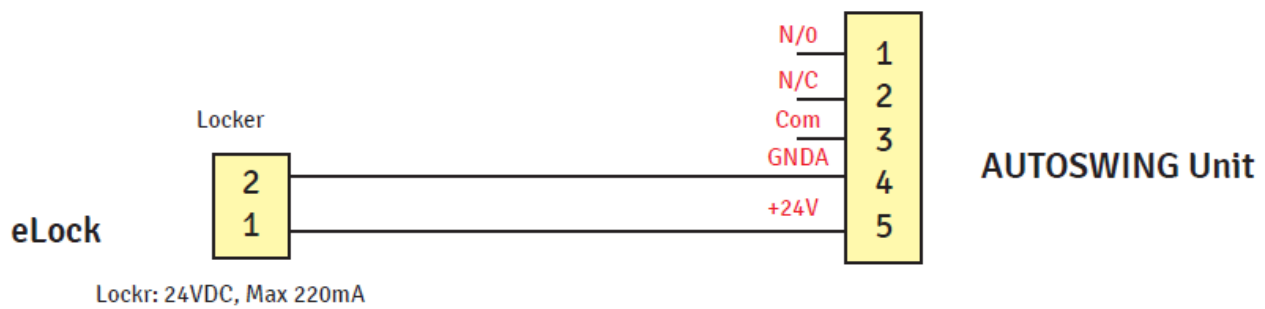
AUTOSWING Unit

AUTOSWING CONTROLLER

SYNC
The SYNC button is used to pair the AutoSlide app on your smartphone to the AutoSwing system. Download AutoSlide Pro on the App Store or download AutoSlide for Android.

Sensor Learn
This button is used to pair wireless sensors to your AutoSwing system, including touch buttons, key FOB remotes, safety sensors, and any other wireless activation device offered by AutoSlide.

Mode Pad Learn
Use this button to pair a wireless mode pad.

Mode
The Mode button is used to toggle between AutoSwing's different Mode settings: Auto, Lock, Hold Open, or Pet Mode.

Inside Sensor
Use the Inside Sensor button to manually activate the system to open the door through the Inside Sensor input

Outside Sensor
Use the Outside Sensor button to manually activate the system to open the door through the Outside Sensor input.

Safety Sensor
Use the Safety Sensor button to manually activate the system to open the door through the Safety Sensor input.

Fire Alarm
Use this button to connect your existing fire alarm system.

PROGRAMING YOUR AUTOSWING

Speaker Volume   Open Time
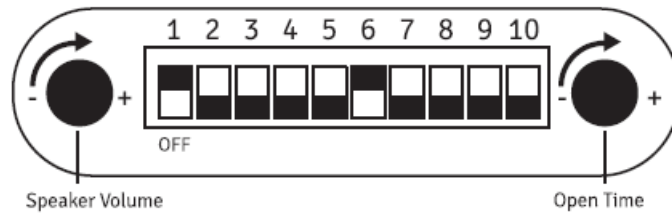
1. Set your door opening direction using DIP switch #1. Power off your AutoSwing, move the door halfway open, and power your AutoSwing back on. It should immediately start to close. If it starts to open, power off your AutoSwing, reverse DIP switch #1, and power your AutoSwing back on. It should then start to close. Make sure DIP switch #6 is ON to enable Bluetooth connection.

2. Pair your AutoSwing with AutoSlide App:

DOOR SETTINGS

75% Speed	⬜
Secure Pet Mode	🔵
Lock with Electrick Strike	⬜

Door Open Period	1 sec

0 sec   25 sec

Opening Force	4

weak   strong

Closing Force	3

weak   strong

Closing End Force	3

weak   strong

LEARN OPEN WIDTH

(Door) (Pet)
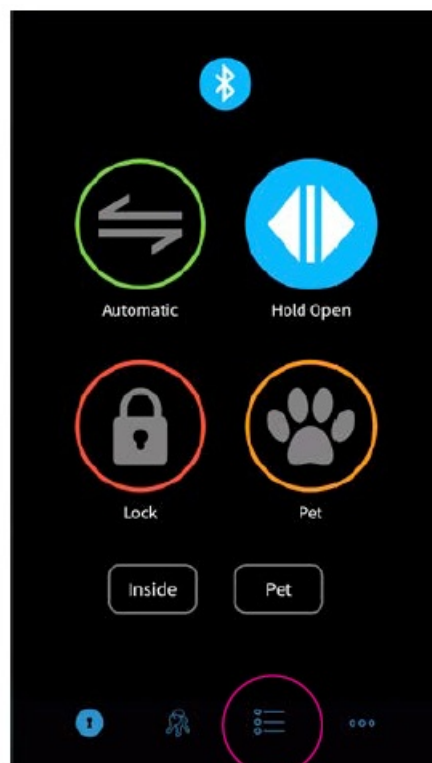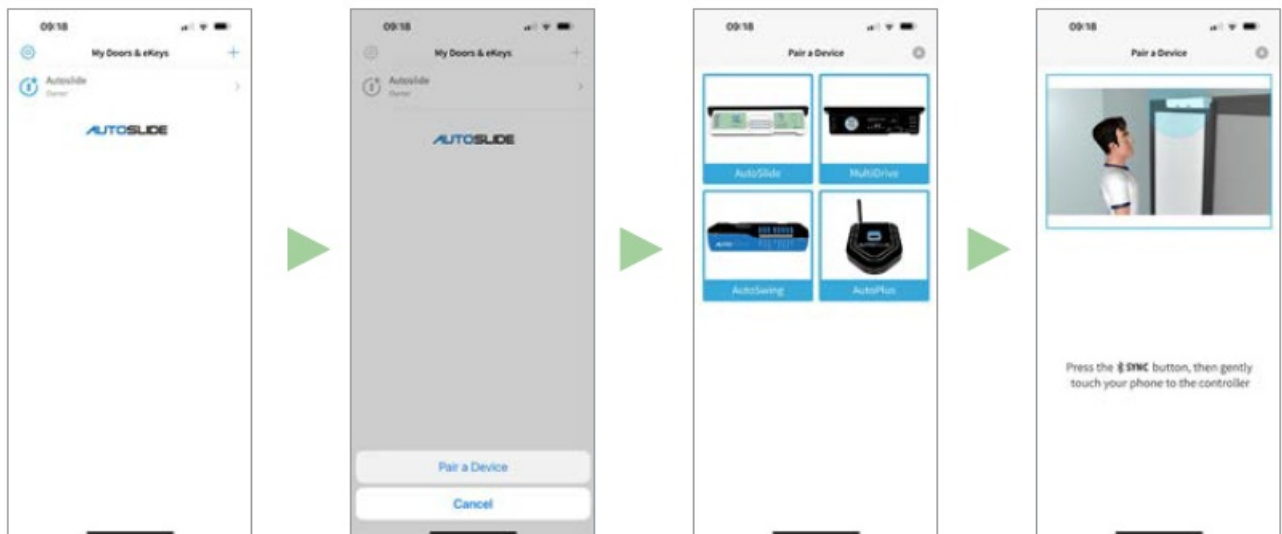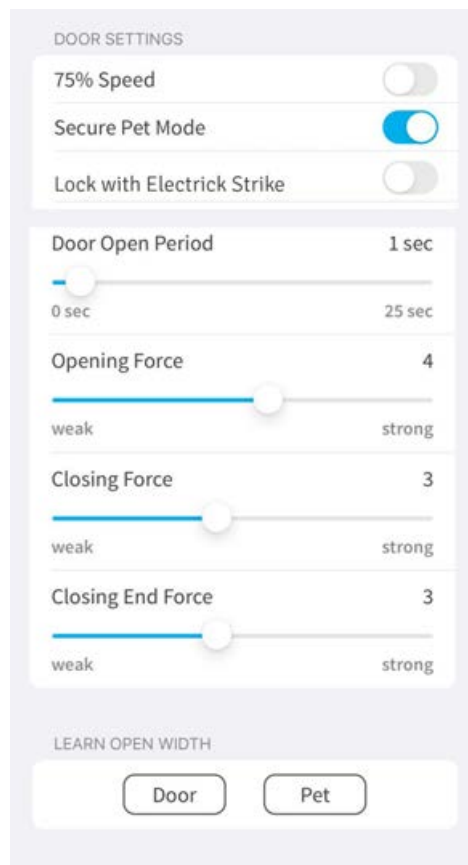
3. Click the Plus Sign to Add your AutoSwing Door, then select AutoSwing. Tap on "Pair a Device", and follow the App instructions.

4. Using your AutoSlide App, Using your AutoSlide App, click on your AutoSwing door, go to Door Settings, and tap on "Door" in LEARN OPEN WIDTH section to set how wide your door can open. On the first tap, the door will start opening. When the max opening width is reached, tap \ "Door" for the second time and the door will start closing. Once the AutoSwing has finish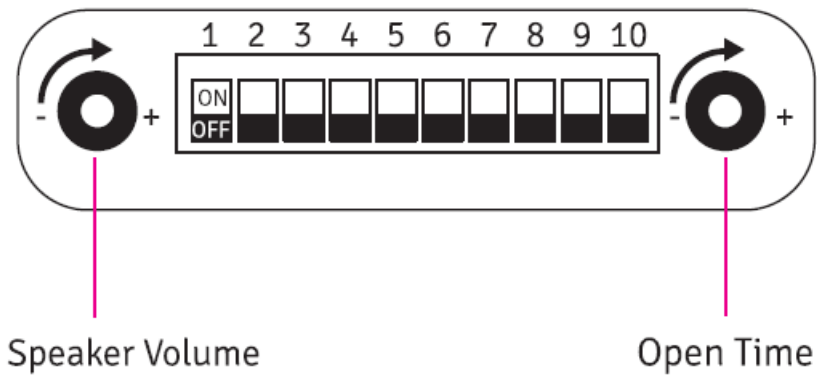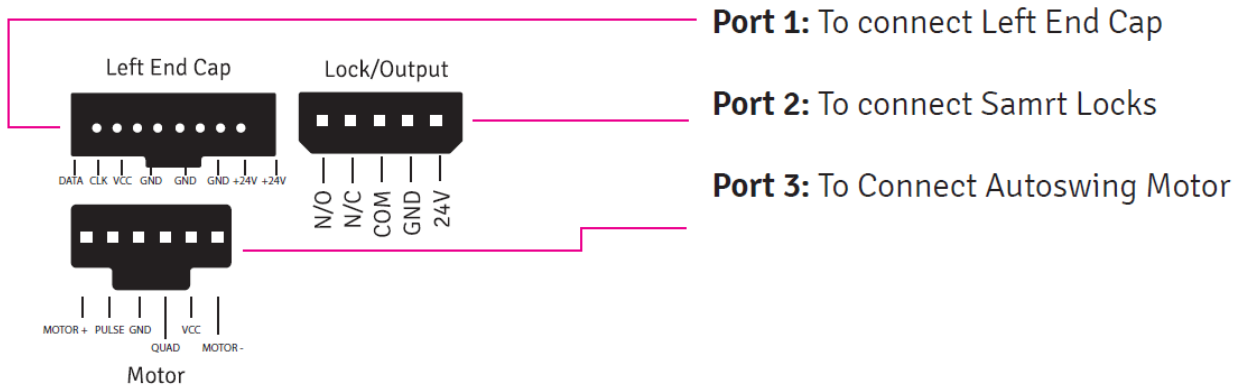ed its learning cycle and is staying still, you can repeat this process but tapping on "Pet" instead of "Door". This will set how wide the door will open for your pet."

5. Set the door opening speed, by default, it is set to 75%

6. When Secure Pet Mode is ON, the outside sensor is disabled. The door is locked. It will open only for pets with K9 Smart tag. Only the inside sensor is active.

7. Speaker Volume sets the volume of the door notifications.

8. End Cap Brightness: sets how bright the LED light is on both end caps of the AutoSwing operator.

9. With Fire Alarm Enabled, you can choose between keeping the door open or close when Fire Alarm is triggered.

10. Depending on your Fire Alarm setup, you can set Trigger Level to 0V or Max 24V.

When Automatic Mode is selected, both the inside and outside sensor is active. To keep your door open, tap "Door Open". When Lock mode is selected, only the inside sensor is active.

When the door is in Pet Mode, the door is locked; only the inside sensor is active.

When Automatic Mode is selected, both the inside and outside sensor is active. To keep your door open, tap "Door Open". "Stacker" can be tapped to start and stop the door in this mode.

When Lock mode is selected, the door is locked; only the inside sensor is active. When the door is in Pet Mode, you can open the door by tapping on the "Inside" or "Outside" button. To let your pet in or out, tap the "Pet" button.

Port 1: To connect Left End Cap

Port 2: To connect Samrt Locks

Port 3: To Connect Autoswing Motor

Left End Cap

DATA CLK VCC GND GND GND +24V +24V

Lock/Output

N/O N/C COM GND 24V

MOTOR + PULSE GND VCC

QUAD MOTOR -

Motor

1 2 3 4 5 6 7 8 9 10

ON
OFF

Speaker Volume

Open Time

1. Direction/Learn
2. Slam Shut (ON)
3. Locker: PTO (ON)/PTL ML (OFF)
4. Secure Pet Mode (ON)
5. 75% Opening Speed (ON)
6. Bluetooth App (ON)/MODBUS (OFF)
7. Heavy Door (ON)/Light Door (OFF)
8. Fire Alarm acting input signal: 12V (ON)/0V(OFF)
9. Door Open (ON)/Close (OFF) @fire alarm active
10. EndCap Light Off (OFF)

Wireless mode pad controller
Mode Pad — Outside Sensor /Safety Fire Alarm — Right End Cap

CN7 VCC CN7 CN7 CN7 MODE GND   OPEN +12V GND   FIRE IN +12V GND   LED LED VCC_AUX GND

RS485-B RS485-A GND +12V   MASTER +12V GND   SAFE IN +12V GND   RX TX GND +12V

MODBUS — Safety/Pet Sensor — WIFI

Smart home integration control with built-in KNX software.

Inside Sensor
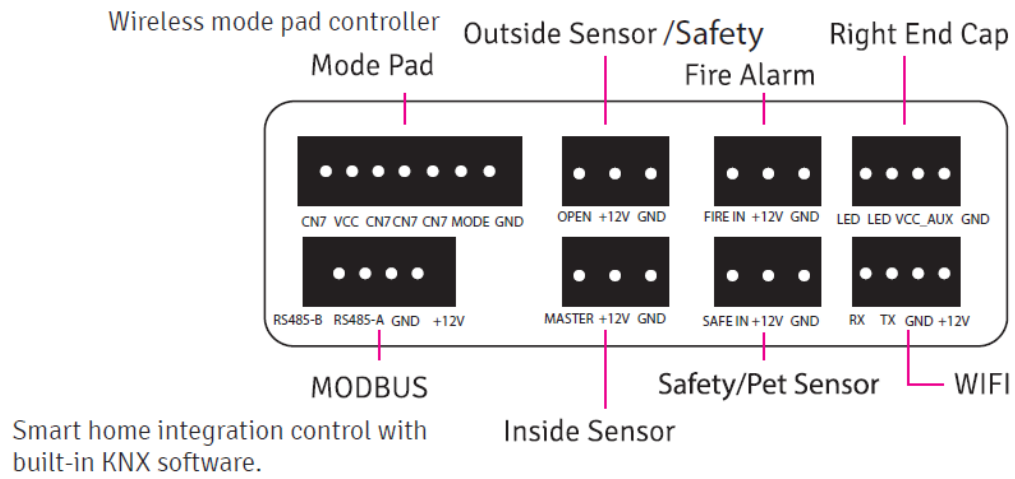
FIRE ALARM SETUP

Fire Alarm for swing door:
Dip8 for alarm input signal (stacker port):

- OFF: no reverse input alarm signal (normal open).
- ON: reverse input alarm signal (normal close, link to 0V).

Dip9 for when alarm on, door moving positon: open or close.

Dip9	Dip8 (revers input signal)	I/p signal from Fire Alarm	Door moving to	I/p signal from Fire Alarm	Door moving to
Up, (OFF)	Up, (OFF)	0V	Open (active)	24V max	Close (normal position)
Down, (ON)	Up, (OFF)	0V	Close (active)	24V max	Close (normal position)
Up, (OFF)	Down (ON)	0V	Close (normal position)	24V max	Open (active)
Down, (ON)	Down (ON)	0V	Close (normal position)	24V max	Close (active)

Option 1: Fire Alarm Signal. Voltage will be 0V, 9V, 12V, 24Vmax
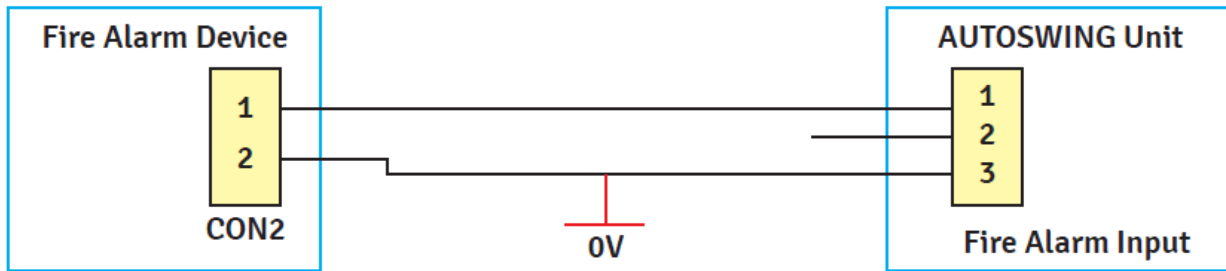
Option 2: Fire Alarm Signal. Voltage will be 0V, 12V.
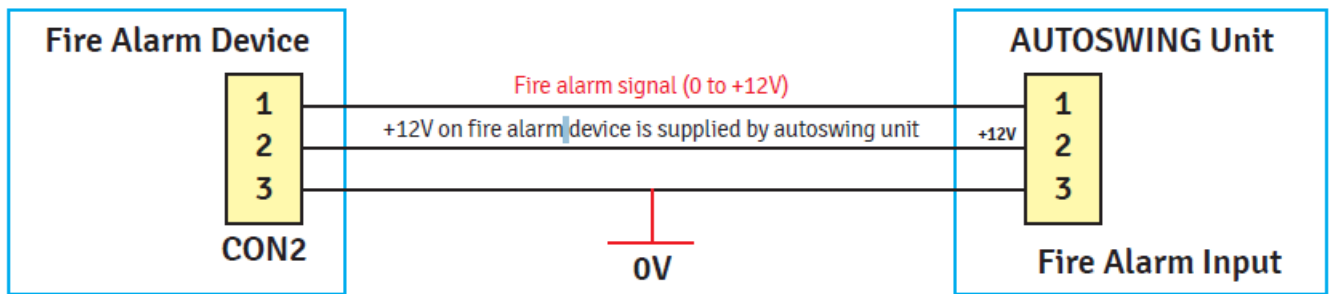
SENSORS

If you are using a wired safety sensor and a pet sensor, you will need a Y connector to allow both to be used.

- For the wireless safety sensors, you use a wireless IR sensor. Each side of the door needs a safety sensor.

- For an Out-swing Door, you can use the wired Safety Sensor port or an IR sensor that operates in the Pet Sensor (use switch on IR sensor to select) for the side of the door with the AutoSwing and a wireless IR sensor operating in Outside Sensor for the other side of the door.

- For an In-swing Door, you can use an IR sensor that operates in the Outside Sensor (use switch on IR sensor to select) for the side of the door with the AutoSwing and a wireless IR sensor operating in Pet Sensor for the other side of the door.

SETUP

1. Connect the antenna to the back of the AutoPlus and tighten by turning clockwise. Position the antenna to a straight up position.

2. Plug the Ethernet cord into your router and connect the other end to the back of the AutoPlus.

3. Connect the power cable to the AtuoPlus and plug the power adapter into a working outlet.

4. Compare the lights on the AtuoPlus to the LED Logo Indicator chart on page 2 to ensure they are functioning properly.

5. Complete your AutoPlus setup by following the "Pair a Device" instructions in the Autoslide app.

    Check these before beginning the pairing process for AtuoPlus:

    -   An AutoSlide, MultiDrive, or AutoSwing is installed and paired successfully to your phone as the owner.
    -   Latest version of the AutoSlide app is downloaded and installed on your phone.

- AtuoPlus is connected to the router and a live internet connection.

6. After configuration, control your doors with the Autoslide app.

   To test the Autoslide app, open the app, select your device, and press Inside to activate a door opening.

Color	Meaning
White (solid)	Starting up
White (fade in and out)	Ready to pair
Blue	Normal operation
Amber (blinking)	Factory reset
Red	Not connected to internet
Magenta	Searching for Smart Lock
Amber (fade in, fade out)	Firmware download in progress
Amber (rapid blinking)	Updating firmware

Reset the AutoPlus
Reset your AutoPlus Gateway by gently inserting a paperclip into the pinhole on the back of the unit. This will change the LED status to blue and then back to white.
The LED will briefly flash amber while the AutoPlus is resetting and rebooting.

SAFETY INSTRUCTIONS

This document contains important instructions for installation of i-swing door operators.
Review these instructions thoroughly prior to installation, and follow them carefully during installation, commissioning, troubleshooting and maintenance.
In case of Dip Switch 7 is ON (Heavy Force), two safety sensors for opening and closed required.
ALL LOW ENERGY DOORS

Automatic Caution Door Decal

- All low energy doors shall be marked with signage visible from both side of door with the words "AUTOMATIC CAUTION DOOR".
- Signs shall be mounted 50" ± 12" from floor to center line of sign.
- Knowing act switch used to initiate door operation.
- ACTIVATE SWITCH TO OPERATE decal
- When a knowing act device is used to initiate operation of door operator, door shall be provided with sign on each side of door where switch is operated with message "ACTIVATE SWITCH TO OPERATE".
- Push/Pull used to initiate door operation.
- PUSH TO OPERATE, PULL TO OPERATE decals.
- When push/pull is used to initiate operation of door operator, doors shall be provided with the message "PUSH TO OPERATE" on push side of door and "PULL TO OPERATE" on pull side of door

READ AND FOLLOW ALL INSTALLATION INSTRUCTIONS CAREFULLY!FAILURE TO DO SO MAY RESULT IN PERSONAL INJURY OR PROPERTY DAMAGE!
Before Installation:

- Install only on a properly operating and balanced door. A door that is operating improperly could cause severe injury. Have qualified service personnel make repairs to cables, spring assemblies, and other hardware before installing the operator.
- Remove all pull ropes and remove, or make inoperative, all locks (unless mechanically and/or electrically interlocked to the power unit) that are connected to the door before installing the operator.
- If the operator has exposed moving parts, ensure it is out of reach from pedestrians.
- Do not connect the door operator to the source of power until instructed to do so. Connection of the high voltage supply should be done by a qualified professional and within the guidelines of the enforced local electrical codes.

SAFETY WARNINGS

WARNING
An incorrect installation may result in damage to equipment or incorrect equipment operation

WARNING
Electric shock hazard!
By use of control elements, settings, or procedures not documented in this manual!

WARNING
Work on electrical equipment and 115 Vac wiring installation must be only be performed by qualified personnel!

WARNING
Metallic doors must be grounded per national and local codes!
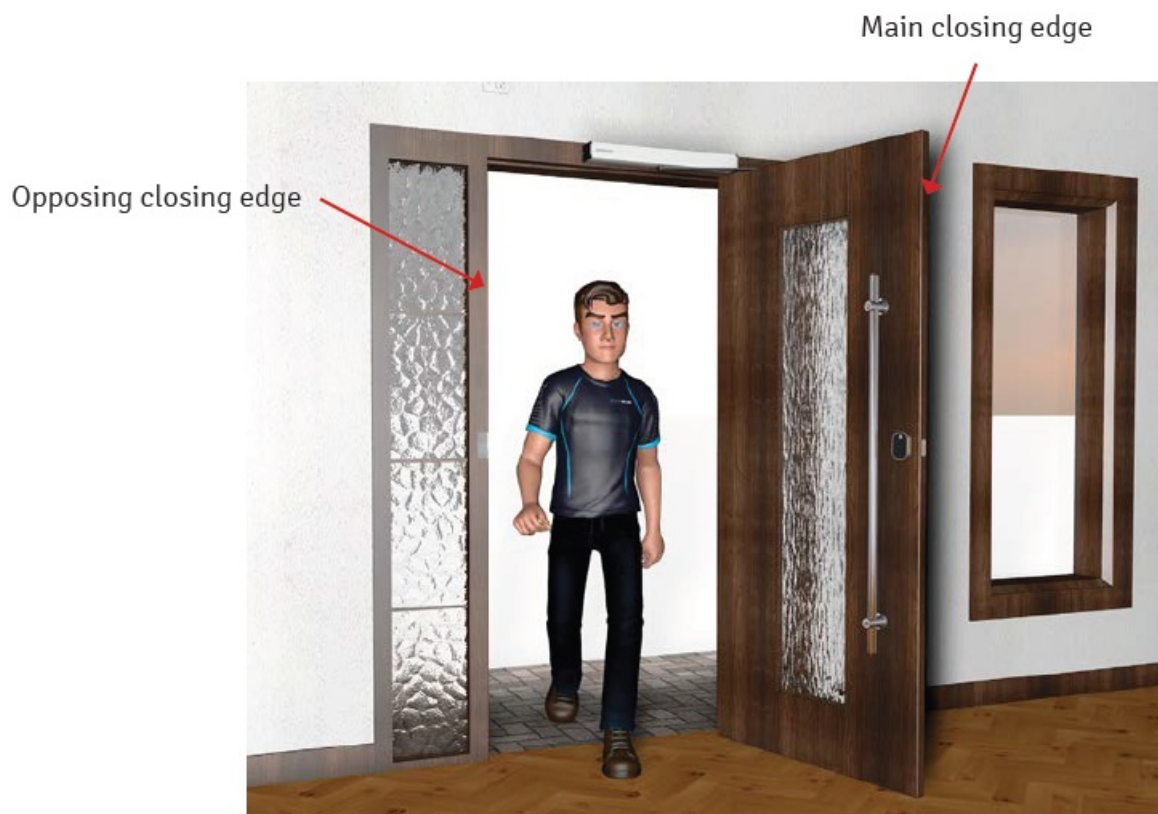
WARNING
Hand pinch point and crushing hazards at door closing edges!

WARNING

- When dip 7 (light/heavy) setting is on, or dip 2 (slam shut) setting is on . the system need add safety sensor to avoid hit people or pet heavily due to heavy force. Also dip 5 (75% opening speed) is off, safety sensors must be present. According to Australian standard (AS5007-2007 power doors for pedestrian access and egress) .
- When the door open force Max , closing force Max, closing end force Max setting is over level 4 by Autoswing App , system needs safety sensor
- **WARNING**

  Crushing hazards at door closing edges!.

- **WARNING**

  Hand pinch point and crushing hazards at arm and track!

WARNING

The user of AUTOSWING devices must be disconnected from the source of supply before attempting the installation of the accessory

" PEDESTRIAN DOOR OPERATOR FOR RESIDENTIAL USE "

WARNING

To reduce the risk of injury to persons-Use the operator only with a pedestrian door.

The switch is to be install in a location from which operation of the door can be observed by the person operating the switch

The glazing material employed is to comply with the requirement in that the glazing material in both fixed and sliding panels of all sliding doors and in all unframed swinging doors shall comply with the requirements in the Performance Specifications and Methods of Test for Safety Glazing Material Used in Buildings, referenced in Annex A. Ref. No 27. Glazing material for other pedestrian doors shall also comply with the same standard, except that single strength or heavier glass may be used for those portions of doors involving a glazed area of less than 0.9m2 (1 ft2) and having no dimension greater than 457mm (18 in).

The pedestrian door operator that is intended for connection to the source of supply by a flexible is to be cautious/warn, against risks of associated with allowing the cord to become entrapped in moving parts of the operator, door, or system

The installer shall fix a 3 pin wall socket nearest to the left side of the operator, where the 2 pin AC power supply will be then plug into this socket. Any access wire has to be well tied/ or dressed, preventing tangling wire .

Note the cord should not be :

- Routed through doorways, window openings, walls , ceilings, floors or the like;

- Attached or otherwise secured to the building structure ; or

- Concealed behind walls and the like.

Detachable Power Supply Cord Marking- " WARNING : USE ONLY ADAPTOR PROVIDED FOR USE WITH OPERATOR, OTHER ADAPTOR MAY RESULT IN RISK OF FIRE. SEE INSTALLATION INSTRUCTIONS FOR DETAIL" or equivalent.

- Manufacturer's Name AUTOSLIDE PTY LTD

- Trademark AUTOSWING

- Catalogue number ASW8-1

- Power Supply Adaptor Input voltage: 100VAC-240VAC,2.5A , 50Hz, 60Hz

- Output voltage : 25VDC , 2.6A

FCC Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accord-ance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

To find out more about AUTOSWING, please visit **autoslide.com**

Documents / Resources

AUTOSLIDE AutoSwing Automatic Door System [pdf] Instruction Manual
AutoSwing, AutoSwing Automatic Door System, Automatic Door System, Door System

References

- **Autoslide – Autoslide – Automatic Sliding Doors for homes**