



BLSL840

Vehicular Gate Operator

Installation Instruction & Owner's Manual



PLATINUM ACCESS SYSTEMS™





Installation Instructions & Safety Information Manual

BLSL840 Vehicular Gate Operator

Class I, Class II, Class III, and Class IV

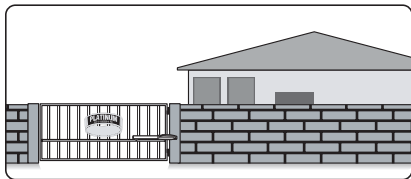
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gate operator class categories and examples

READ AND FOLLOW ALL INSTRUCTIONS MANUAL BEFORE ATTEMPTING ANY INSTALLATION

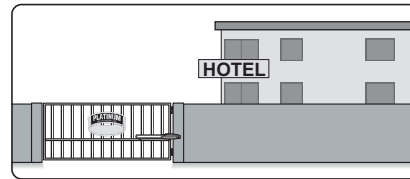
Residential Vehicular Gate Operator Class I

A vehicular gate operator (or system) intended for use in a home of one-to four single family dwelling, or a garage or parking area associated therewith.



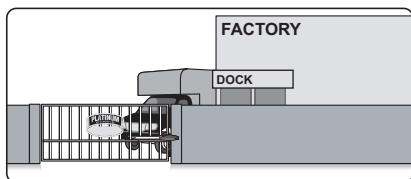
Commercial/General Access Vehicular Gate Operator Class II

A vehicular gate operator (or system) intended for use in a commercial location or building such as a multi-family housing unit (five or more single family units), hotel, garages, retail store, or other building servicing the general public.



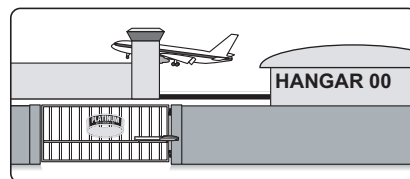
Industrial/Limited Access Vehicular Gate Operator Class III

A vehicular gate operator (or system) intended for use in an industrial location or building such as a factory or loading dock area or other locations not intended to service the general public.



Restricted Access Vehicular Gate Operator Class IV

A vehicular gate operator (or system) intended for use in a guarded industrial location or building such as an airport security area or other restricted access locations not servicing the general public, in which unauthorized access is prevented via supervision by security personnel.



PROTECTION AGAINST ENTRAPMENT

Usage Class	Gate Operator Category			
	Horizontal Slide, Vertical lift, and Vertical Pivot		Swing and Vertical Barrier (arm)	
	Primary Type*	Secondary Type*	Primary Type*	Secondary Type*
Vehicular I and II Vehicular III Vehicular IV	A A, B1, or B2 A, B1, B2, or D	B1, B2, or D A, B1, B2, D, or E A, B1, B2, D, or E	A, or C A, B1, B2, or C A, B1, B2, C, or D	B1, B2, C, or D A, B1, B2, C, D, or E A, B1, B2, C, D, or E

Note - The same type of device shall not be utilized for both the primary and the secondary entrapment protection means. Use of a single device to cover both the opening and closing directions is in accordance with the requirement; however, a single device is not required to cover both directions. A combination of one Type B1 for one direction and one Type B2 for the other direction is the equivalent of one device for the purpose of complying with the requirements of either the primary or secondary entrapment protection areas.

^a **Entrapment protection Types:**

Type A: Inherent entrapment protection system.

Type B1: Provision for connection of, supplied with, a non-contact sensor (photoelectric sensor or the equivalent).

Type B2: Provision for connection of, or supplied with, a contact sensor (edge device or the equivalent)

Type C: Inherent adjustable clutch or pressure relief device.

Type D: Provision for connection of, or supplied with, an actuating device requiring continuous pressure to maintain opening or closing motion of the gate.

Type E: An audio alarm.

Use and Application

The model BLSL840 is intended for Class I, II, III and IV usage on a vehicular slide gate application.

a) Install the gate operator only when:

- 1) The operator is appropriate for the construction of the gate and the usage Class of the gate,
- 2) All openings of a horizontal slide gate are guarded or screened from the bottom of the gate to a minimum of 4 feet (1.22 m) above the ground to prevent a 2-1/4 inch (57.2 mm) diameter sphere from passing through the openings anywhere in the gate, and in that portion of the adjacent fence that the gate covers in the open position,
- 3) All exposed pinch points are eliminated or guarded, and
- 4) Guarding is supplied for exposed rollers.

b) The operator is intended for installation only on gates used for vehicles. Pedestrians must be supplied with a separate access opening. The pedestrian access opening shall be designed to promote pedestrian usage. Locate the gate such that persons will not come in contact with the vehicular gate during the entire path of travel of the vehicular gate.

c) The gate must be installed in a location so that enough clearance is supplied between the gate and adjacent structures when opening and closing to reduce the risk of entrapment. Swinging gates shall not open into public access areas.

d) The gate must be properly installed and work freely in both directions prior to the installation of the gate operator. Do not over-tighten the operator clutch or pressure relief valve to compensate for a damaged gate.

e) For gate operators utilizing Type D protection:

- 1) The gate operator controls must be placed so that the user has full view of the gate area when the gate is moving,
- 2) The placard equivalent to the following: "To reduce the risk of electric shock the operator power is to be provided from a weatherproof outlet in the case of attachment plug connection or weatherproof junction box in the case of permanent wiring according to the National Electrical Code, NFPA 70." shall be placed adjacent to the controls,
- 3) An automatic closing device (such as a timer, loop sensor, or similar device) shall not be employed, and
- 4) No other activation device shall be connected.

Use and Application

- f) Controls intended for user activation must be located at least six feet (6') away from any moving part of the gate and where the user is prevented from reaching over, under, around or through the gate to operate the controls. Outdoor or easily accessible controls shall have a security feature to prevent unauthorized use.
- g) The Stop and/or Reset button must be located in the line-of-sight of the gate. Activation of the reset control shall not cause the operator to start.
- h) A minimum of two (2) WARNING SIGNS shall be installed, one on each side of the gate where easily visible.
- i) For gate operators utilizing a non-contact sensor:
 - 1) See instructions on the placement of non-contact sensors for each Type of application,
 - 2) Care shall be exercised to reduce the risk of nuisance tripping, such as when a vehicle, trips the sensor while the gate is still moving, and
 - 3) One or more non-contact sensors shall be located where the risk of entrapment or obstruction exists, such as the perimeter reachable by a moving gate or barrier.
- j) For a gate operator utilizing a contact sensor:
 - 1) One or more contact sensors shall be located where the risk of entrapment or obstruction exists, such as at the leading edge, trailing edge, and post mounted both inside and outside of a vehicular horizontal slide gate.
 - 2) One or more contact sensors shall be located at the bottom edge of a vehicular vertical lift gate.
 - 3) One or more contact sensors shall be located at the pinch point of a vehicular vertical pivot gate.
 - 4) A hardwired contact sensor shall be located and its wiring arranged so that the communication between the sensor and the gate operator is not subjected to mechanical damage.
 - 5) A wireless device such as one that transmits radio frequency (RF) signals to the gate operator for entrapment protection functions shall be located where the transmission of the signals are not obstructed or impeded by building structures, natural landscaping or similar obstruction. A wireless device shall function under the intended end-use conditions.
 - 6) One or more contact sensors shall be located on the inside and outside leading edge of a swing gate. Additionally, if the bottom edge of a swing gate is greater than 6 inches (152 mm) above the ground at any point in its arc of travel, one or more contact sensors shall be located on the bottom edge.
 - 7) One or more contact sensors shall be located at the bottom edge of a vertical barrier (arm).

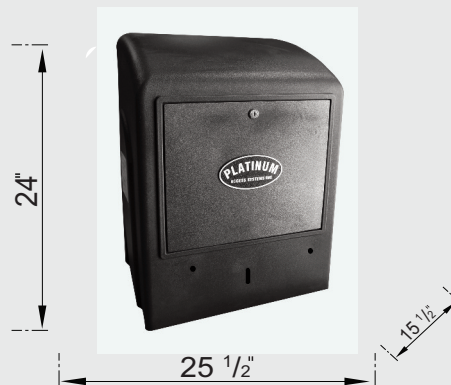
Important Safety Instructions

WARNING – To reduce the risk of injury or death:

1. READ AND FOLLOW ALL INSTRUCTIONS.
2. Never let children operate or play with gate controls. Keep the remote control away from children.
3. Always keep people and objects away from the gate. **NO ONE SHOULD CROSS THE PATH OF THE MOVING GATE.**
4. Test the gate operator monthly. The gate **MUST** reverse on contact with a rigid object or stop when an object activates the non-contact sensors. After adjusting the force or the limit of travel, retest the gate operator. Failure to adjust and retest the gate operator properly can increase the risk of injury or death.
5. Use the emergency release only when the gate is not moving.
6. **KEEP GATES PROPERLY MAINTAINED.** Read the owner's manual. Have a qualified service person make repairs to gate hardware.
7. The entrance is for vehicles only. Pedestrians must use separate entrance.
8. **SAVE THESE INSTRUCTIONS**

SPECIFICATIONS

Maximum Gate Weight:	800 lbs.
Maximum Gate Length:	40 feet
Opening Time:	12" per second
Power Requirements:	120 VAC Single Phase at 2 Amps or 220 VAC Single Phase at 1 Amp
Main Power:	Power Input: 100-240 VAC Select 115 /230 VAC Single Phase Built-in 24VDC battery backup (7AmpHr 12VDC x 2)
Operating Temperature:	-20°C (-4°F) to 70°C (158°F)
Operator Weight:	132 lbs.
Operator Dimensions:	



Maintenance Instructions

Maintenance instructions of BLSL840 performed by a qualified gate operator technician **Installation, all connections, programming, repair and modifications must be done by a qualified professional gate operator installer.**

The following services need to be periodically performed:

- Check and adjust the gate operator for force, speed, and sensitivity.
- Make sure all power (AC/DC) connections are corrosion free.
- Check all batteries for proper voltage of the intended use. A fully charged battery must be 26 VDC minimum.
- Check the incoming line voltage and confirm it is within 10% of its rating (115 or 230 volts).
- Verify battery backup functionally by turning off the power source (115 VAC and 230 VAC). Don't forget to restore power after testing.
- Check the wheels, guide rollers, chain, and lubricate where needed with a heavy-duty, highperformance lubricant and avoid spillage.
- Inspect the track for any signs of cracking or separation.
- Test (use caution) all contact and non-contact sensors, all vehicle detectors, keypad, telephone entry system or other control devices applicable.
- Test the manual release feature on the operator.

Maintenance instructions of BLSL840 performed by the end user/home owner

Installation, all connections, programming, repair and modifications must be done by a qualified professional gate operator installer. End users/home owners must call a qualified professional gate operator installer for programming changes, repairs and modifications.

Although all Platinum Access Systems' gate operators are virtually maintenance free to an end user/home owner, minimal maintenance is recommended to ensure a smooth operation of this unit.

End users/home owners:

- Perform maintenance every six months, or when strenuous noise from wheels and/or guide rollers is detected. Lubricate them with heavy-duty, high-performance lubricant and avoid spillage.
- DO NOT take the cover off the operator and/or the electrical control box to perform maintenance.
- Make sure there are no cars in the path of the gate while performing maintenance.
- Make sure the person performing maintenance is the only person in control of all control devices in order to avoid possible involuntary activation of the gate operator.
- Keep spraying water hoses and sprinkler systems away from the gate, gate operator and the electrical control box at all times. Keep that general area as clean as humanly possible.
- Test (use caution) all non-contact sensors, all vehicle detectors, keypad, telephone entry system or other control devices applicable.



Intended Use

The operator is intended for installation on a vehicular slide gate only.

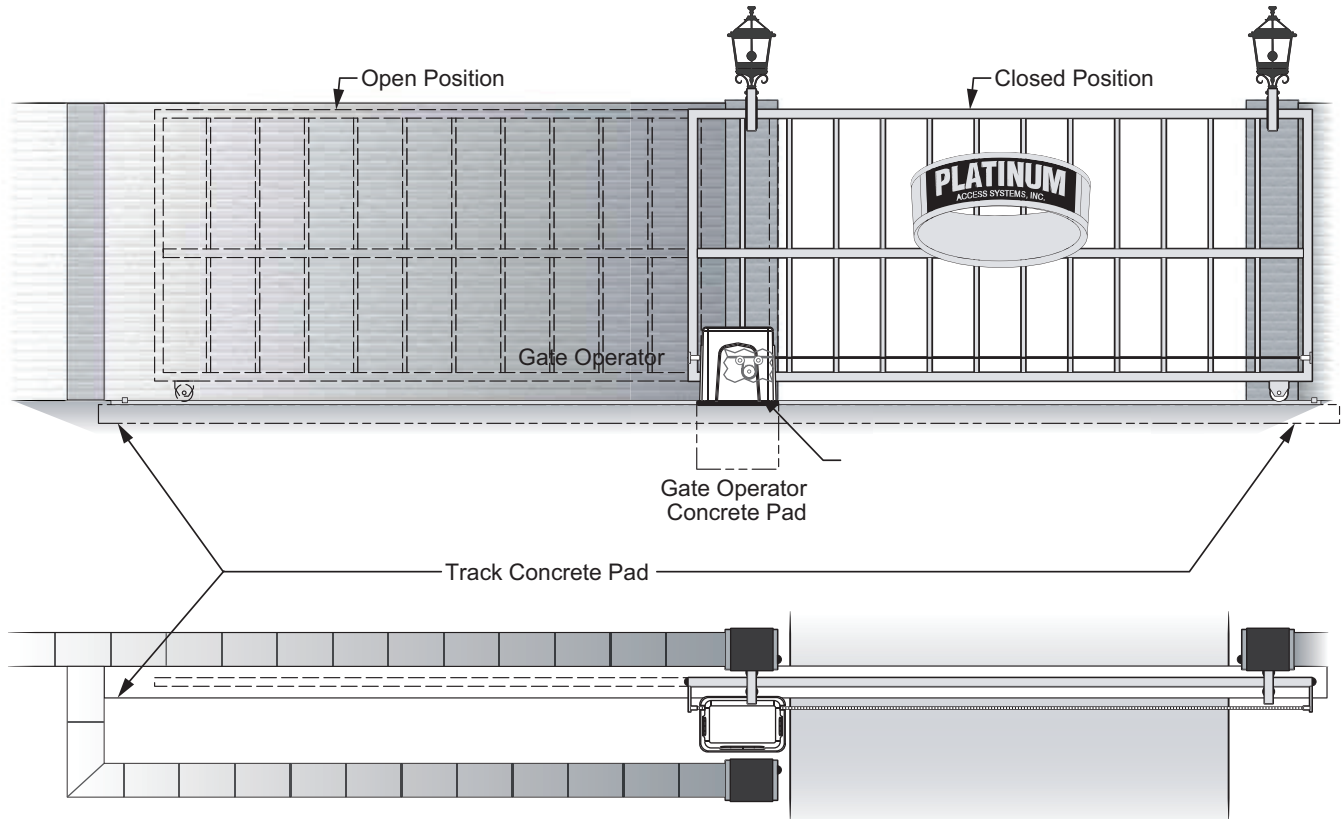


The operator IS NOT intended to be used for any pedestrian gate.



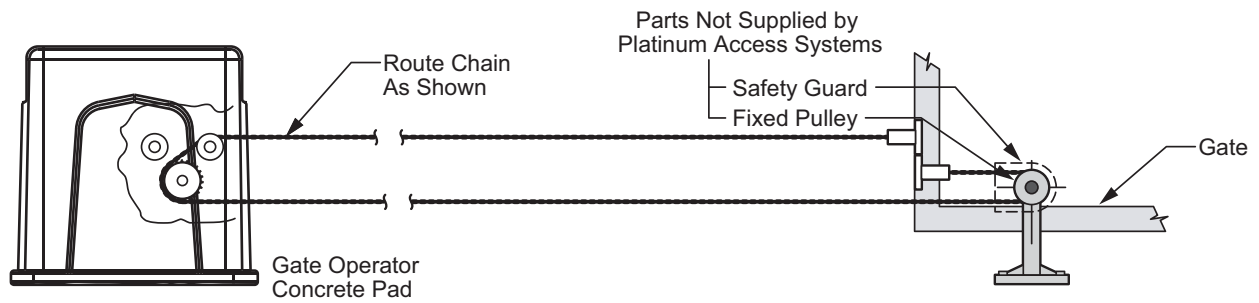
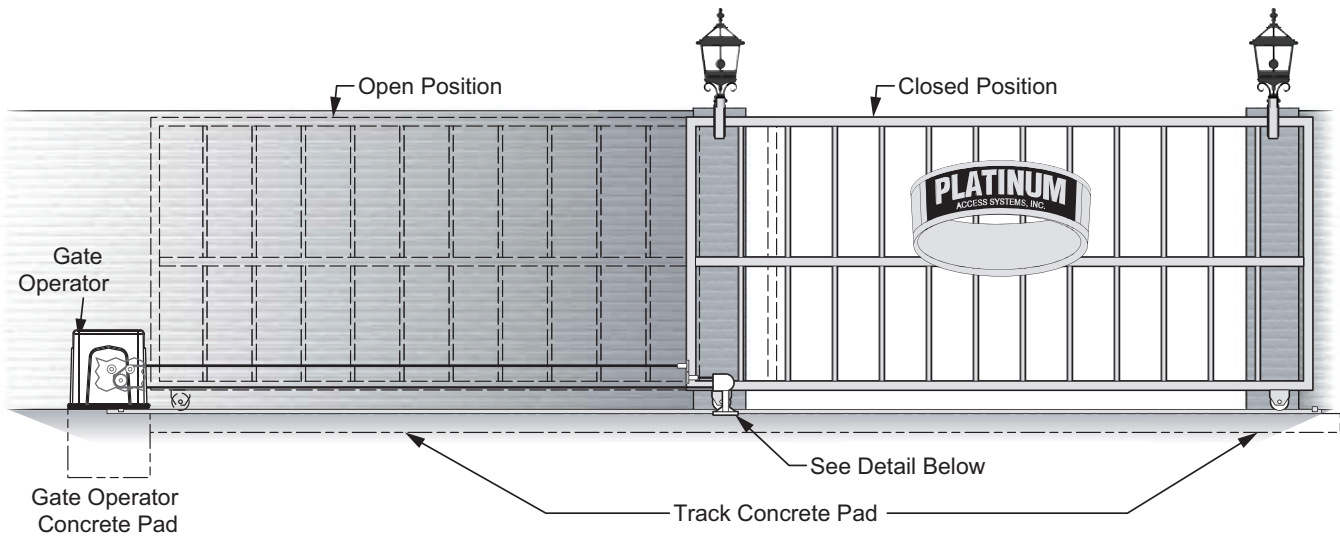
Types of Installations

FRONT INSTALLATION



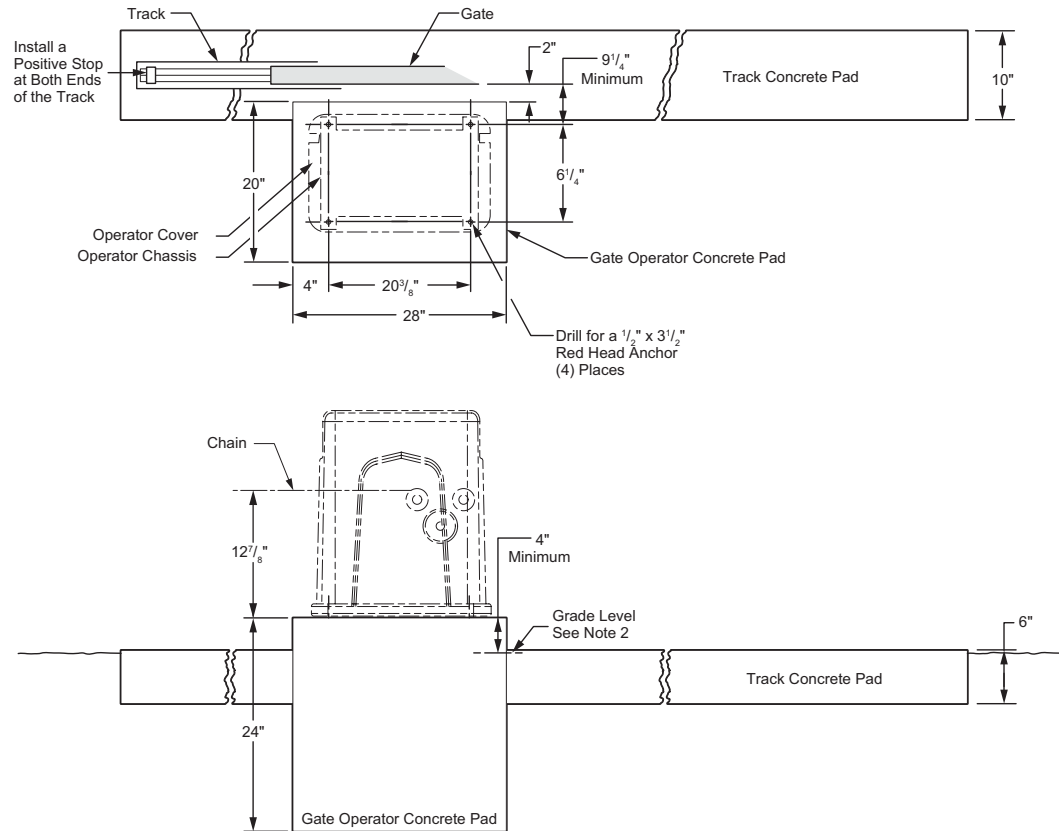
Types of Installations

REAR INSTALLATION



Mounting Instructions

CONCRETE PAD



1. Follow the local building code to determine the requirement of the concrete pad.
2. We recommend the Pad measurements should be at least 28" long, 20" wide, and 24" deep to ensure the stable operation of the operator, and a minimum of 4" above level grade to avoid any flooding of the operator.
3. To support the weight of the gate, we recommend the path of the track should be at least 10" wide and 6" deep.

Mounting Instructions

NOTE:

Pre-installation procedure;

Manually open and close the gate, ensuring there is sufficient space between adjacent walls and gate.

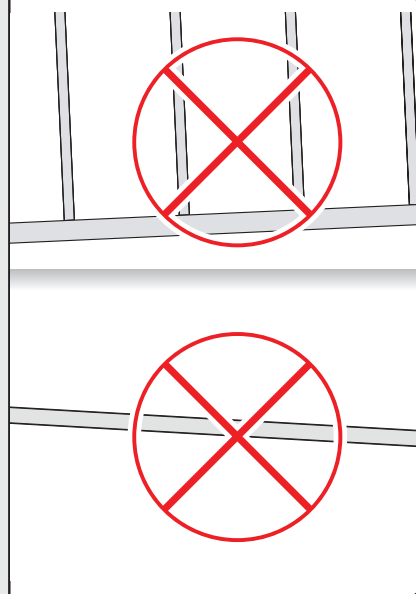
While pushing the gate to the open and closed positions, confirm that the wheels turn freely on the track and there are no obstacles.

Ensure that there is plenty of space for the guide rollers and that there are no obstacles throughout the movement of the gate.

STEP 1

Ensure the gate and operator are **LEVEL** and **PARALLEL** prior to anchoring the chassis to the concrete pad.

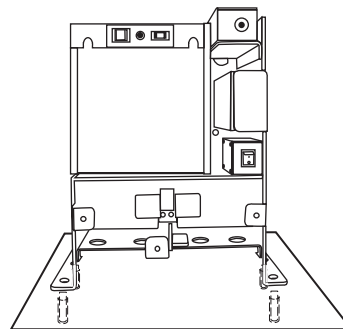
Minimum distance between the operator and gate is 3".



STEP 2

Secure the operator to the concrete pad using Red Head 1/2" x 3-1/2" Anchors.

Always follow the manufacturers instructions for proper installation. Refer to the drawing for hole center dimensions



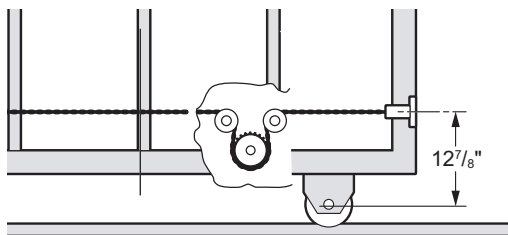
Mounting Instructions

STEP 3

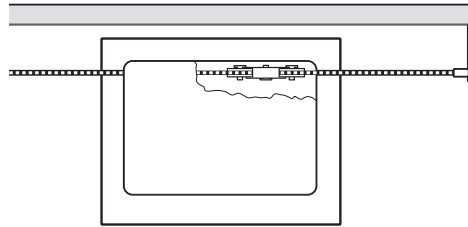
Chain Installation:

Confirm the chain will be in a straight line with, and at the same height as, the chain leaving the gate operator rollers prior to welding the chain brackets provided.

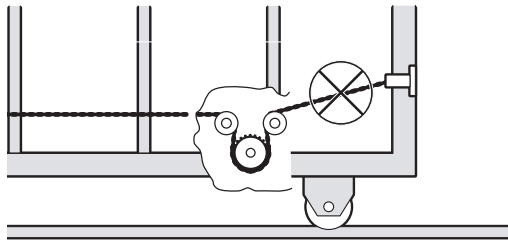
Correct



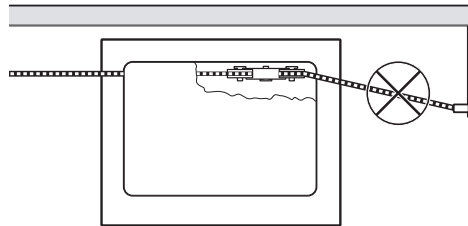
Correct



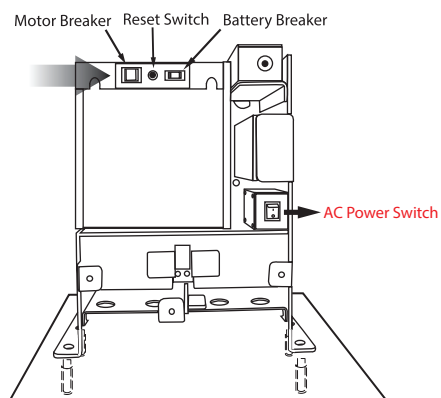
Incorrect



Incorrect



Manual Release



When manual operation is required:

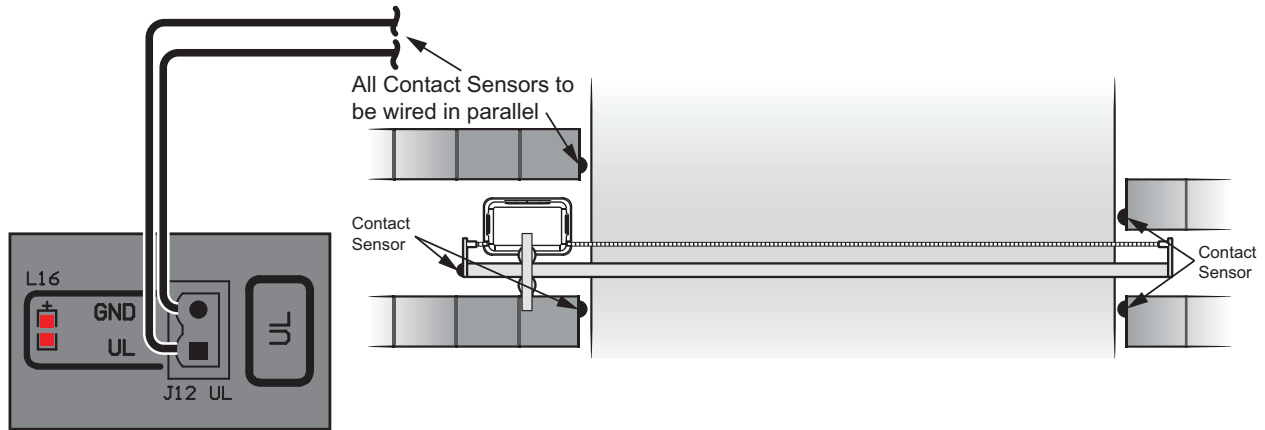
Open the front door, locate the Motor Breaker and turn it to the "OFF" position.

Turn the Motor Breaker to the "ON" position to resume normal operation.

Installation: entrapment protection

Note: This type of installation DOES NOT reverse the gate all the way back to its limits when the sensors are obstructed. This installation is only to protect against entrapment and to comply with UL325.

Contact Sensor Installation:



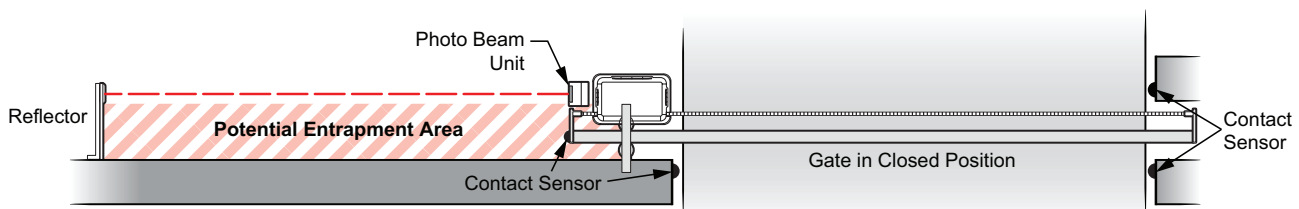
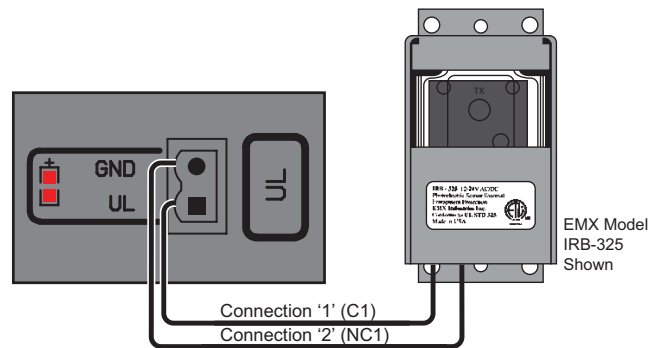
Only sensors compliant with UL 325 are recommended.

Non-Contact Sensors (Photoelectric Sensors) Installation:

One or more non-contact sensors shall be located where the risk of entrapment or obstruction exists, such as the perimeter reachable by a moving gate or barrier.

Install photoelectric sensors to protect against any entrapment or safety conditions encountered in your gate application.

We recommend the use of EMX IRB-325 photoeyes to comply with UL325.



Consult the UL325 device installation manual for more detail information about the usage, installation and maintenance of this device.

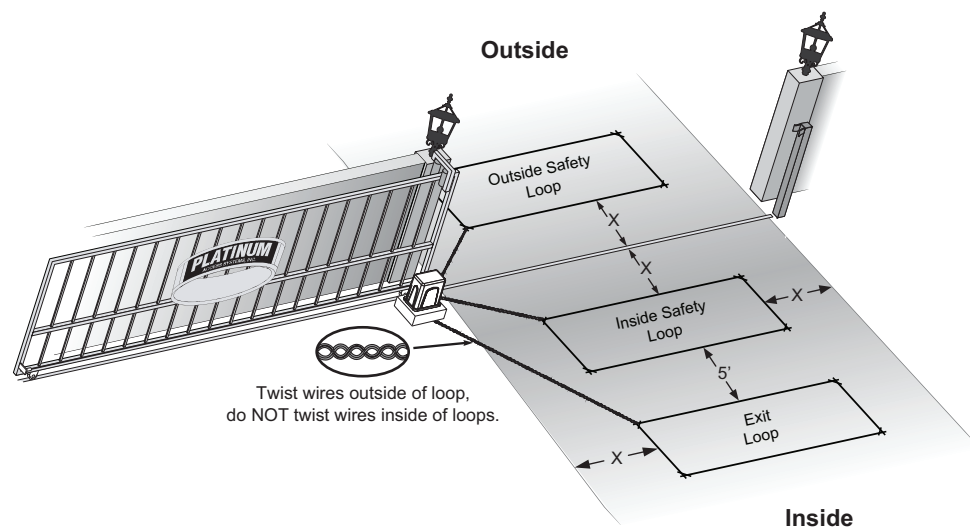
Installation: Inductive Loops



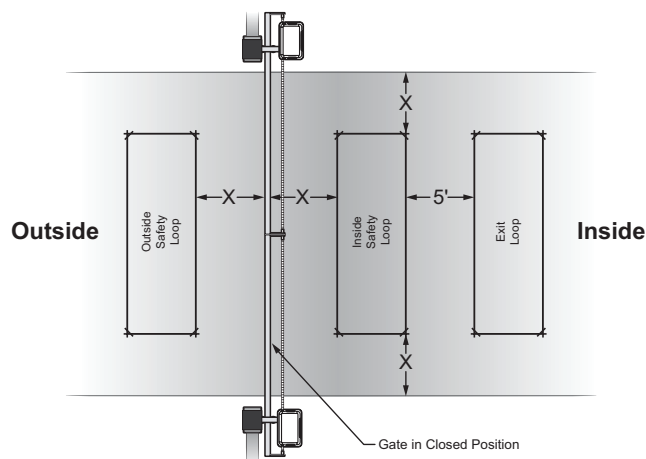
WARNING – Consult the installation instructions from the loop detector manufacturer. The following statements are provided as a guide but different requirements may be required by the vehicular loop detector manufacturer.

Inductive Loops Installation:

Safety loops allows the gate to stay open when vehicles are obstructing the gate path. If the gate is longer than the vehicles that pass through it a center loop is recommended and should be installed. A center loop prevents the gate from closing when a vehicle is between the safety loops. Safety loops are required when using a center loop. See Loop Wiring.



Check with local regulations and accepted best practice requirements for every installation.



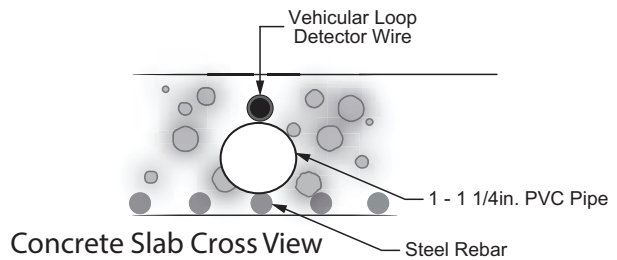
Installation: inductive loops



WARNING – This product is an accessory or part of a system. Always read and follow the manufacturer’s instructions for the equipment before connecting this product. Comply with all applicable codes and safety regulations. Failure to do so may result in damage, injury or death.

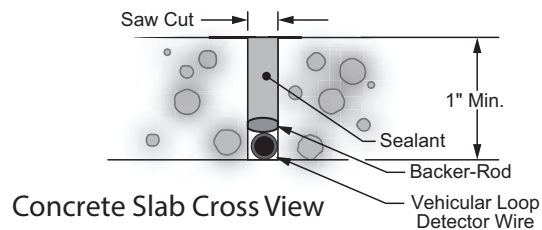
New Slab Pour

Ty-wrap 1 1/4” PVC Pipe to the top of the rebar in the size and configuration of the loop (i.e. 4ft x 8ft). Then ty-wrap the loop to the top of the PVC frame. This stabilizes the loop during the pour and separates it from the rebar.



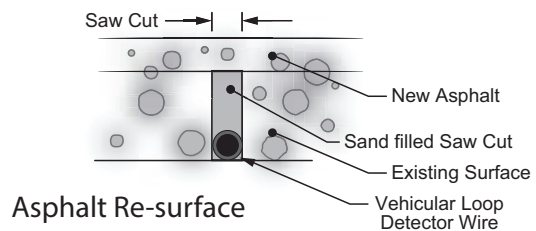
Saw Cut Existing Surface

Cut “ deep into the existing surface, place a 45° cut at the corners to prevent sharp edges from damaging the loop wire. Notch out for the “T” connection where the lead wire connects to the loop. Remove all debris from the finished cut with compressed air. Place the loop into the saw cut. Place backer material into the saw cut over the loop wire and pack tightly. Place a high quality sealer over the saw cut to seal the surface.

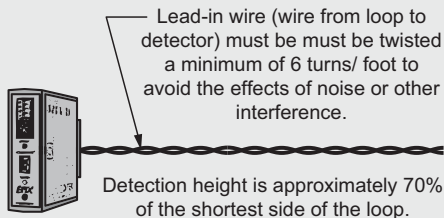


Resurface Asphalt

Saw cut the existing surface 3/4” deep and place a 45° cut at the corners to prevent sharp edges from damaging the loop wire. Remove all debris from the finished cut with compressed air. Place sand over the loop wire to the surface and pack tightly. Lay new asphalt.



General Installation Guidelines



Recommended # of Turns

Perimeter in Feet	# of Turns
10	5
20	4
30-40	3
50-100	2

Installation: Electrical

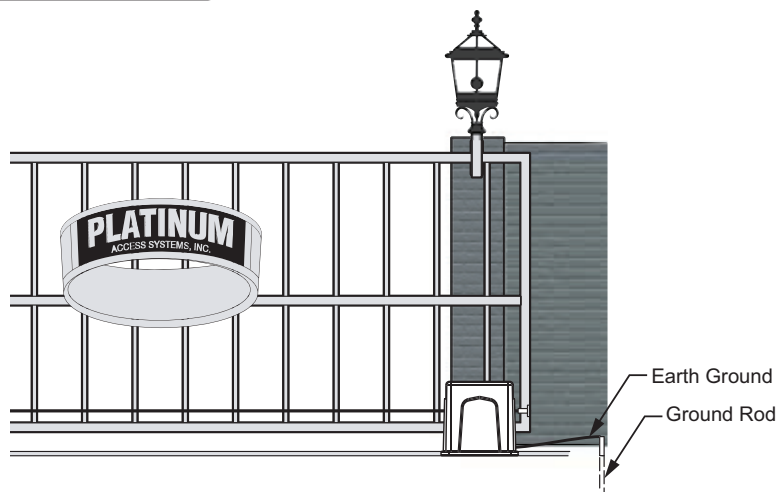
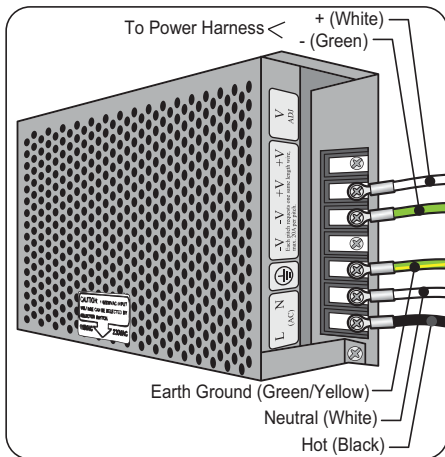
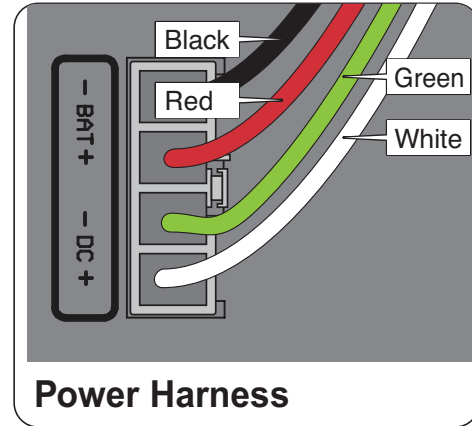


WARNING – Verify the installation first to make sure everything is correct before connecting the power cable to the board. USE MIN. 14 AWG WIRE. FOLLOW ALL LOCAL ELECTRICAL CODES.

To help protect the equipment from lightning and power surges and to protect persons from shock hazard the Operator must be grounded. The earth ground rod must be located within 3 feet from the gate operator. Use the proper type earth ground rod for your local area. The ground wire must be a single, whole piece of wire. Never splice two wires for the ground wire. If you cut the ground wire too short, break it, or destroy its integrity, replace it with a single wire length. Prevent unnecessary turns or loops in ground wires.

The gate operator and the battery charger require a single phase AC line to operate.

1. Turn off the breaker for the circuit you are using.
2. Select the proper voltage on the power board.
3. Connect the incoming power wires to the proper terminals.
4. Turn on the breaker and check that AC ON and CHARGE LED are lit.

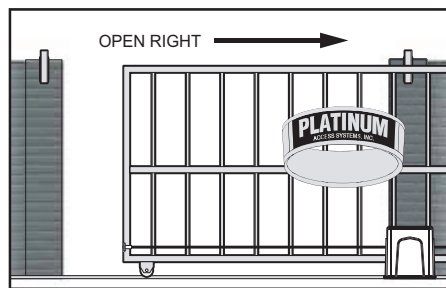
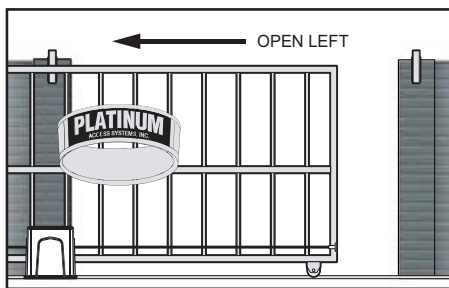
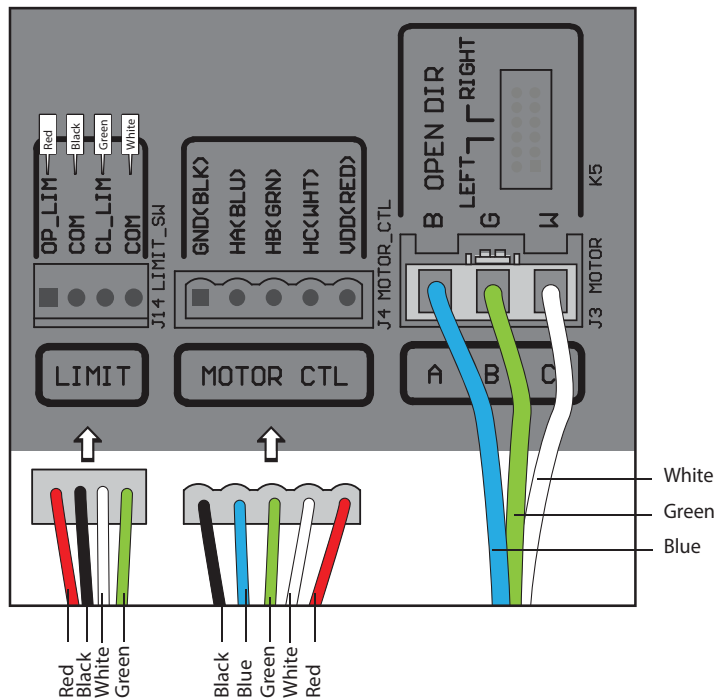


The power receptacle has been left unconnected till the installer decides what voltage to use. Connect to 120VAC only

Installation: Electrical

CONNECTING POWER: (PRE-WIRED)

Connect the LIMIT harness to J14, and MOTOR CTL harness to J4.
 On the OPEN DIR switch: Select "RIGHT" to open right.
 Select "LEFT" to open left.



Installation: LIMIT SWITCH SET-UP

LIMIT SWITCH SET-UP:

STEP 4

- A. Move the gate manually to the closed position.
- B. Loosen and rotate the Right Limit Switch Cam until the Right Limit Switch “clicks”.

Gate Opens to Right

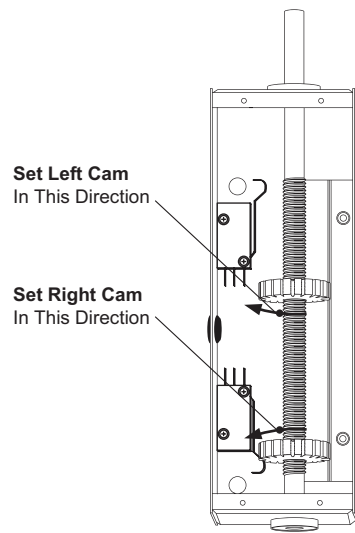
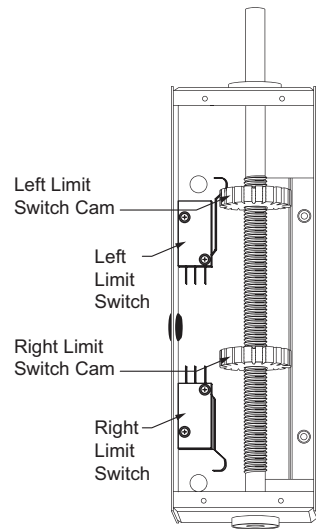
Left Limit Switch	Open limit
Right Limit Switch	Close limit

Gate Opens to Left

Left Limit Switch	Close limit
Right Limit Switch	Open limit

- C. Move the gate manually to the open position.
- D. Loosen and rotate the Left Limit Switch Cam until the Left Limit Switch “clicks”.
- E. Run the unit 2 full cycles without interruption (from limit to limit) to execute a “Learn Cycle.”

Note: Open and close the gate without interruption every time you change the adjustment.



Installation: LIMIT SWITCH SET-UP

LIMIT SWITCH SET-UP (continued):

OPENING/CLOSING SETUP

1. Setup the limit switches manually at the desired open and close position.
2. Allow the gate operator to run a full open and close cycle (from limit to limit) without interruption.

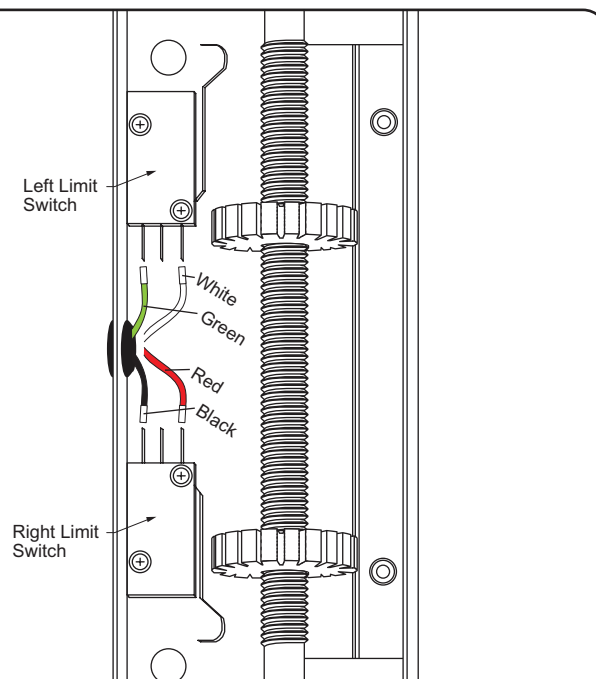
Note: During the first full open and close cycle, the gate operator will run at low speed. During subsequent cycles, the gate operator will speed up at start and slow down prior to reaching its limits.

3. Verify that the gate opens and closes to the desired position.

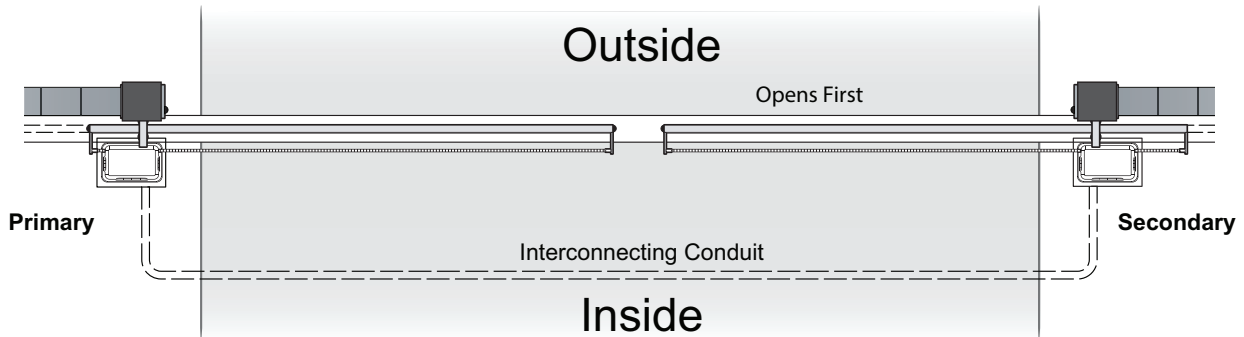
Note: When slightly adjusting the open or close limit position(s), the operator will automatically adapt the changes. When relearning is needed, push and hold "RESET" button for 3 second, the machine will return to original state, and be ready for learning.

LIMIT SWITCH CONNECTIONS

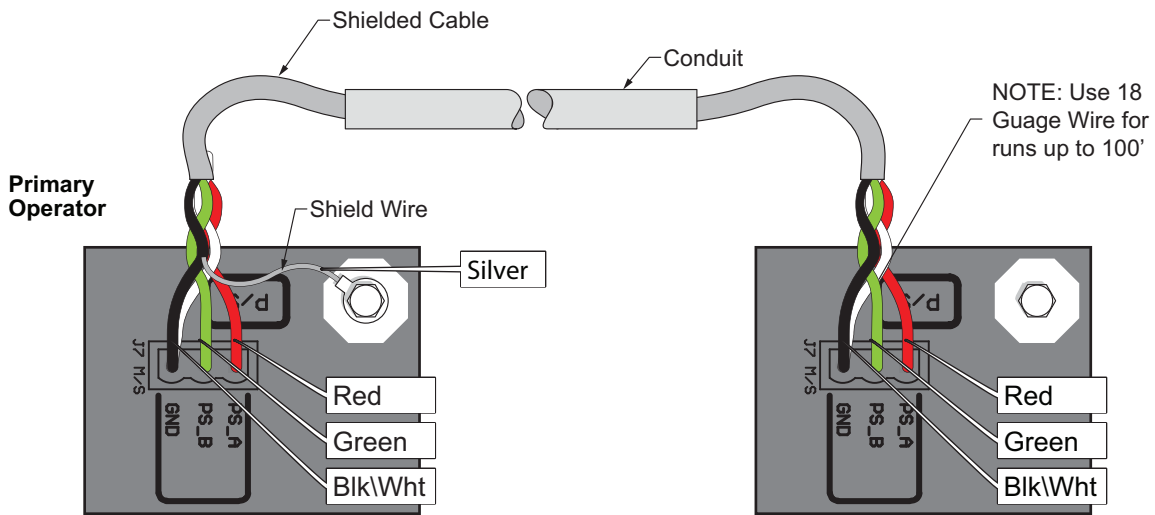
The Limit Switches are pre-wired. Should the wires become disconnected, use this diagram to reconnect them.



Installation: Primary/Secondary Connections

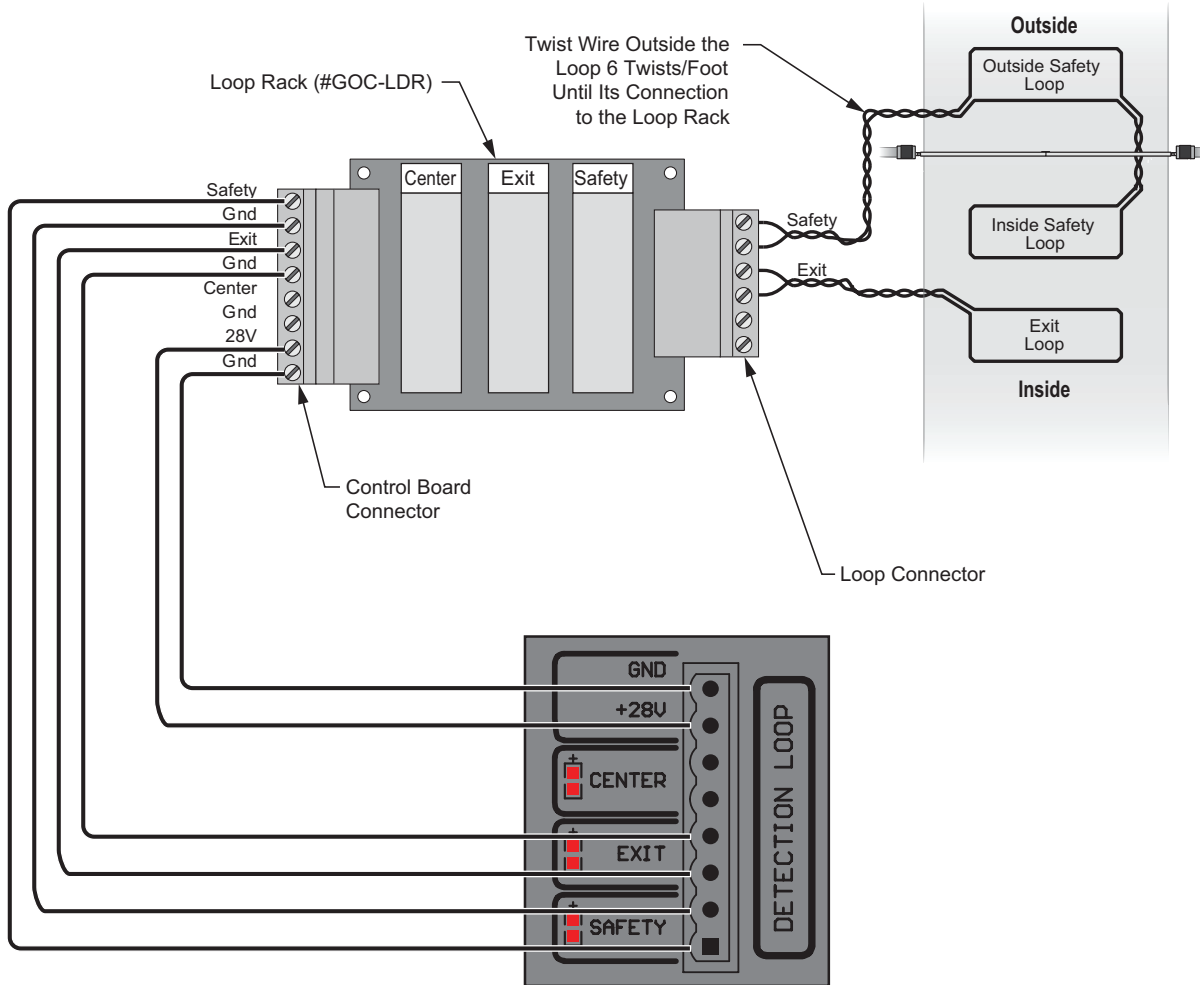


Caution – Do not run Primary/Secondary communication cable in the same conduit as the power supply (120-220V) cable.



The control board provides a connector for Primary/Secondary connectivity. This connector will allow synchronized operation with a second gate operator.

Installation: Loop Rack

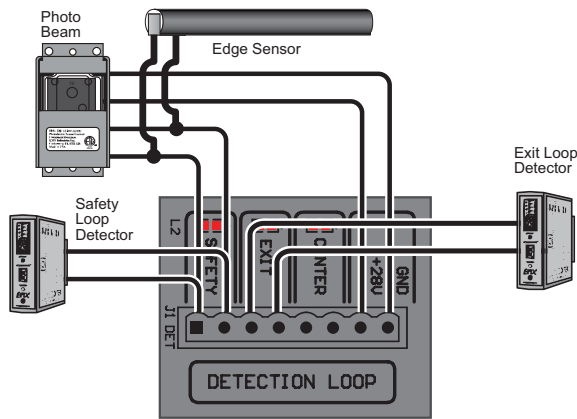


Installation: Accessory Connections

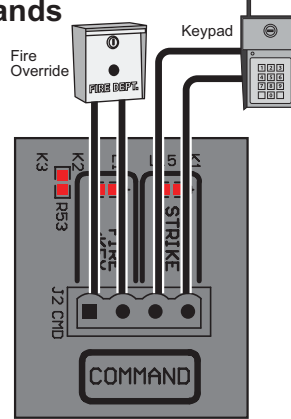
ACCESSORY CONNECTIONS:

To decrease the possibility of vehicle entrapment on the gate, vehicle loop detectors need to be installed. The edge sensor and the photo-electric beam can be used for secondary entrapment protection on every installation to prevent pedestrian or animal entrapment. These accessories must be UL325 compliant devices.

Safety Connections



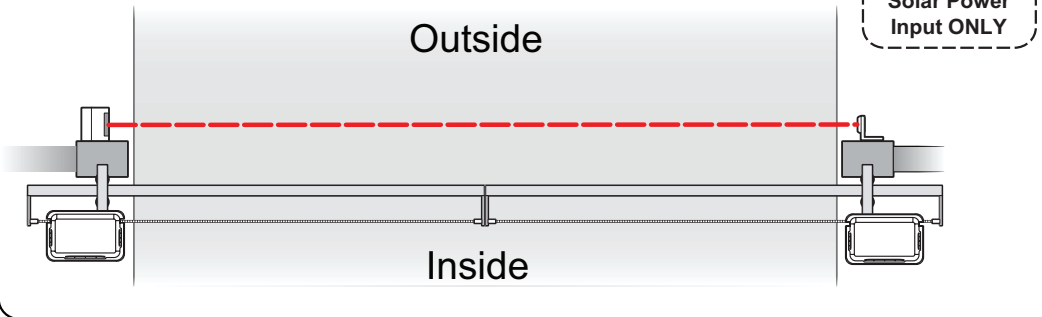
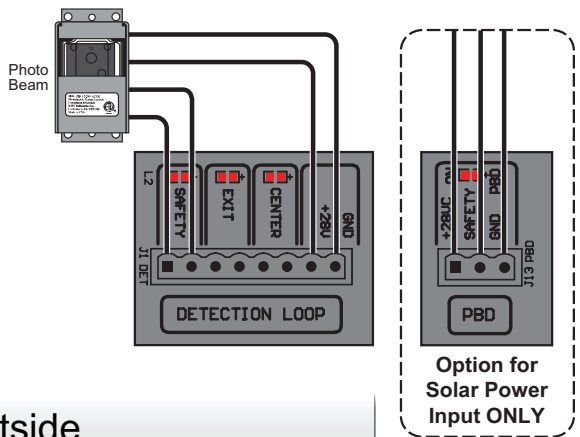
Open Commands



Reopen Photo Beam

Note: Installing the photo beam in this way, allows the gate to re-open all the way upon obstruction of the photo-beam.

The optional PBD connector provides a controlled power supply for Photo Beam. The power will be turned off when gate is in close position to save battery.



Installation: Accessory Connections

ACCESSORY CONNECTIONS (continued):

Radio Receiver

Need to verify the proper connections before connecting the Radio Receiver. The maximum voltage that the control board / battery can provide is about 28V for external accessories. If there is an electrical short in the power to the accessories, the control board will protect itself by shutting down and will remain shut down until the short is fixed.

Two modes of operation that a radio receiver can control the gate:

Open-Close

By having the radio receiver connected as illustrated and with the Timer OFF:

Every command of the radio transmitter will control the gate as follow:

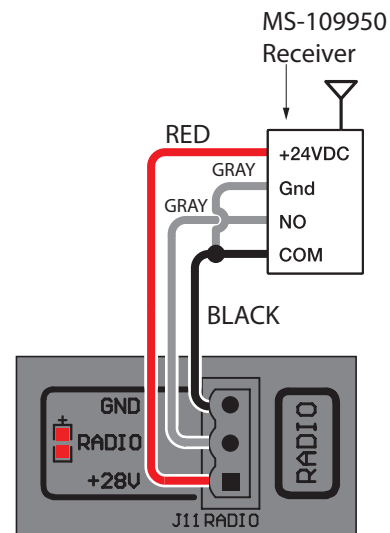
- A. First command opens the gate
- B. Second command CLOSE the gate if at open position
- C. Third command OPEN the gate
- D. Any subsequent commands will continue in the same order to control the gate.

This type of configuration is not recommended for a commercial installations.

Open Only

By having the radio receiver connected as illustrated and with the Timer ON:

Each command of the radio transmitter is ALWAYS AN OPEN COMMAND to the gate.



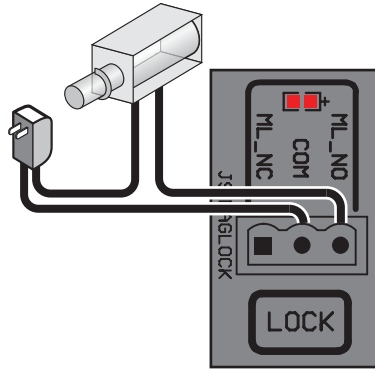
Linear MS-109950
Installation Diagram

Installation: Accessory Connections

ACCESSORY CONNECTIONS (continued):

Solenoid Connection

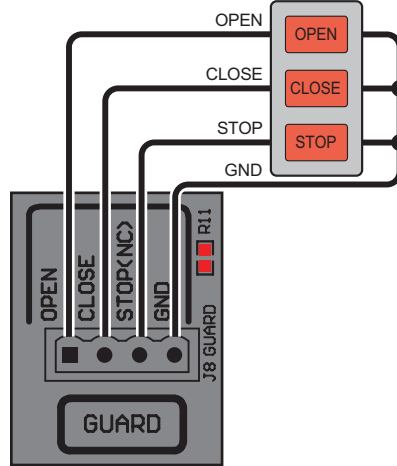
The solenoid power connection must be provided an external power source. This will prevent damage to the battery in the event of a line power failure.



Guard Station

This will control the gate operator to Open, Stop, and Close the gate. The switches for Open and Close must be normally open type. The switch for Stop must be normally close type. They all can be using the same common ground. The control switch box should be within sight of the gate, out of reach of children, and away from moving parts of the gate.

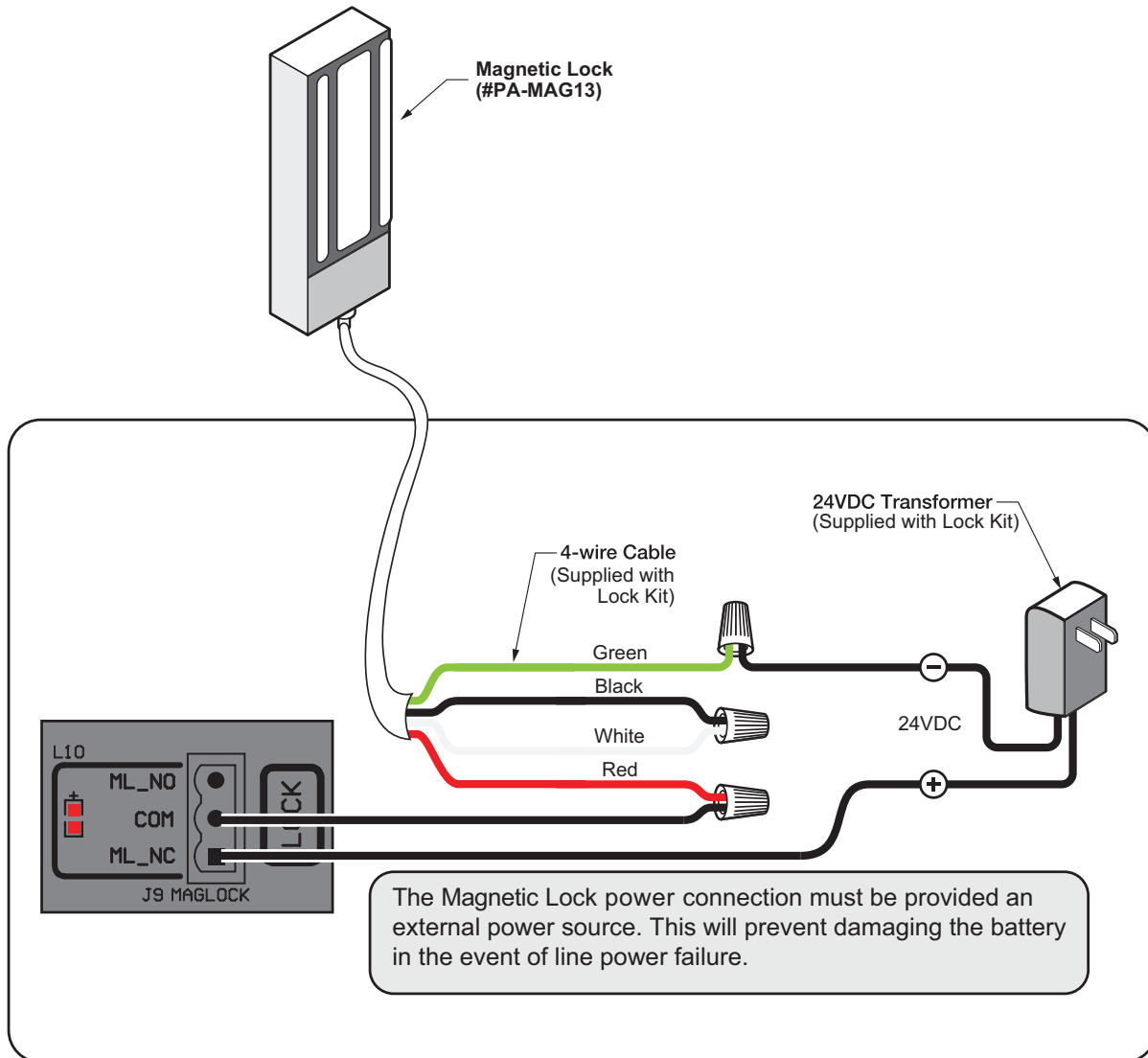
If no guard station or STOP switch is installed, a jumper must be inserted between "STOP(NC)" and "GND" pins.



Installation: Accessory Connections

ACCESSORY CONNECTIONS (continued):

Locks



OPTIONAL ACCESSORY- part # (PA-MAG13).

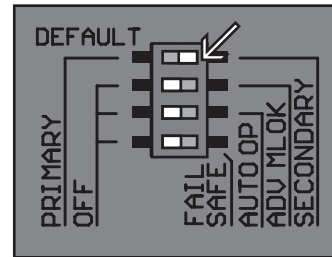
Installation: Selectable Features

PRIMARY/SECONDARY OPERATOR SELECT:

Primary/Secondary

To set the operator to Secondary: Select the DIP switch to SECONDARY position. Recycle power to make the new setting effective.

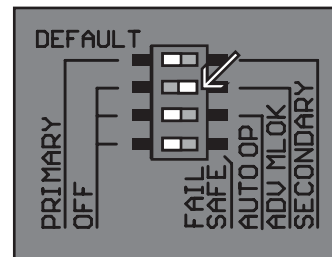
To set the operator to Primary: Select the DIP switch to PRIMARY position. Recycle power to make the new setting effective.



ADVANCING LOCK SELECT:

ADV MLOK

To set the maglock to be engaged before the gate reaches the close or open position: Select the DIP switch to ADV MLOK position.



OPEN ON POWER FAIL:

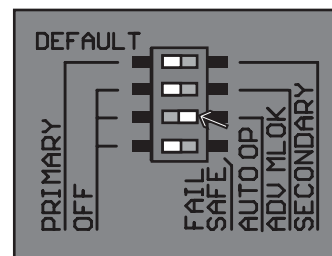
The Auto-Open feature in Platinum Access Systems Gate Operators enables the following functionality in the event of power failure:

- Open the gate in case of power failure (120 or 220 VAC).
- Keep the gate at the open position as long as there is no power.
- Resume to normal operation when the power has been restored.

All accessories and safety devices are functional. The only function disabled is the close command.

Auto-Open

To enable the Auto-Open feature: Select the DIP switch to AUTO OP position.

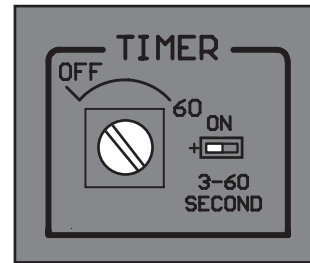


Installation: Selectable Features

CLOSE TIMER:

Close Timer

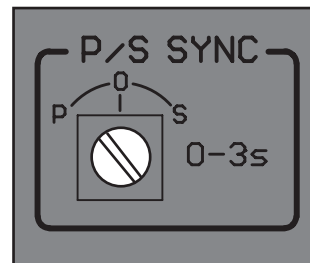
The Close Timer will close the gate a set time after the vehicle clears the gate area. This is adjustable from 3 to 60 seconds.



LEAF DELAY:

Leaf Delay

An Overlap Delay has been provided for biparting gates that have an emblem or maglock for example. It will provide up to a 3 second delay on primary or secondary operator.



INSTANT REVERSING SENSOR:

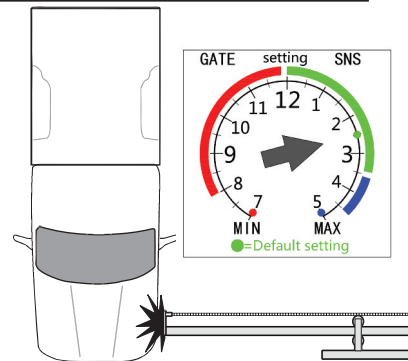
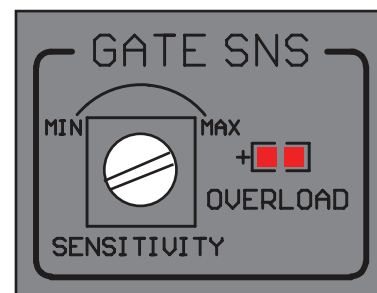
Instant Reversing Sensor

The Obstruction Sensor needs to be adjusted to compensate for the installation and gate weight. The overload adjustment is provided to set the gate sensitivity.

- If the gate reverses by itself or stops in midcycle, it is too sensitive.
- If the gate hits an object and does not reverse or stop, it is not sensitive enough.
- Clockwise increases sensitivity, counter-clockwise decreases sensitivity.

**Test and adjust
for proper reversing pressure**

(Note: When unit alarms, push "STOP" or "RESET" button will clear the alarm)



Installation: Selectable Features & Solar Installation

FAIL SAFE/SECURE:

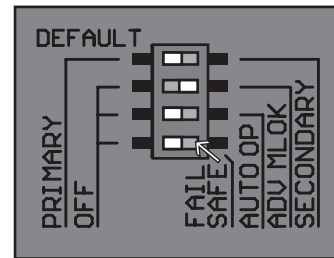
Fail Safe/Secure

On = Fail Safe

Off = Fail Secure

Fail/Safety (Input)	Battery Detection	AC Detection	Output
ON	Normal	Normal	Secure
ON	Normal	OFF	Fail Safe
ON	Low/OFF	Normal	Fail Safe
ON	Low/OFF	OFF	Fail Safe
OFF	Normal	Normal	Secure
OFF	Normal	OFF	Fail Secure
OFF	Low/OFF	Normal	Fail Secure
OFF	Low	OFF	Fail Secure

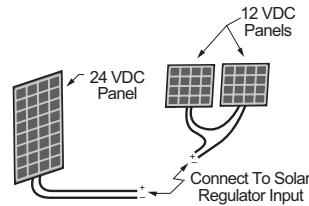
Note: When the output is "Fail Safe", there is less resistance to push the gate open manually.



SOLAR INSTALLATION:

Step 1

A 24V solar panel or two 12V solar panels with minimum 80 watts capacity, Maximum Power Voltage (VPM) > 31V and Open Circuit Voltage (VOC) >38V is required.



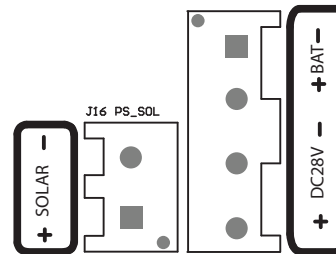
Step 2

Connect the solar panel cables to the Solar socket on the board.

Note: Please charged the operator batteries fully before installing the operator. If you use solar panel as the main power source.

Suggestion: You may need greater capacity for a jobsite. It depends on the following conditions:

1. The weight of the gate. you may need batteries 14AH, 12V or greater capacity batteries if the gate is heavier than 400 lb.
2. The weather condition such a jobsite may has longer cloudy days.
3. The position of the gate such it's uphill/downhill gate.



Optional Solar Installation: For Solar Panel controller installation, please call Technical Support.









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