

## Swing Gate Operators



Gate Capacity $\mathbf{1 6 ~ f t ~ - ~} \mathbf{8 0 0}$ lbs.


## Installation \& Owners Manual

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X9 SWING GATE OPERATOR SPECIFICATIONS


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## SAFETY

## UL 325 Listings

1. Install the gate operator only when:
a) The operator is appropriate for the construction of the gate and the usage class of the gate.
b) All openings of a horizontal slide gate are guarded or screened from the bottom of the gate to a minimum of 6 feet ( 1.83 m ) above the ground to prevent a $2-1 / 4$ inch $(57.2 \mathrm{~mm})$ 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.
c) All exposed pinch points are eliminated or guarded, and
d) Guarding is supplied for exposed rollers.
2. 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 pedestrian gate such that persons will not come in contact with the vehicular gate during the entire path of travel of the vehicular gate.
3. 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.
4. 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.
5. For gate operators utilizing Type D protection:
a) The gate operator controls must be placed so that the user has full view of the gate area when the gate is not moving.
b) The placard provided marked in letters at least $1 / 4 \mathrm{in}$. ( $6.4-\mathrm{mm}$ ) high with the word "WARNING" and the following statement or the equivalent: "Moving Gate Has the Potential of Inflicting Injury or Death - Do Not Start Gate Unless Path is Clear" shall be placed adjacent to the controls,
c) An automatic closing device (such as a timer, loop sensor, or similar device) shall not be employed, and
d) No other activation device shall be connected.
6. 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.
7. 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.
8. A minimum of two (2) WARNING SIGNS shall be installed, one on each side of the gate where easily visible.
9. For gate operators utilizing a non-contact sensor in accordance with Usage Class:
a) See instructions on the placement of non-contact sensors for each type of application,
b) 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
c) 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.
10. For gate operators utilizing a contact sensor in accordance with Usage Class:
a) 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.
b) One or more contact sensors shall be located at the bottom edge of a vehicular vertical lift gate.
c) One or more contact sensors shall be located at the pinch point of a vehicular vertical pivot gate.
d) 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.
e) A wireless contact sensor 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 contact sensor shall function under the intended end-use conditions.
f) 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.
g) One or more contact sensors shall be located at the bottom edge of a vertical barrier (arm).

## UL 325 Model Classifications

## CLASS I

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


## CLASS II

Commercial/General Access Vehicular Gate Operator - A vehicular gate operator (opener 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.

## CLASS III

Industrial/Limited Access Vehicular Gate Operator - A vehicular gate operator (opener or system) intended for use in a industrial location, loading dock area or other location not intended to service the general public.

## CLASS IV

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


## UL 325 Entrapment Protection

## Entrapment Protection Requirements for Each Type of Operator.

Proper installation must satisfy the entrapment protection chart as shown.

| Gate Type | Entrapment Protection |
| :--- | :---: |
| Horizontal Slide <br> Vertical Lift <br> Vertical Pivot Gate | $\mathrm{A}, \mathrm{B} 1^{*}, \mathrm{~B} 2^{*}$ or D |
| Swing Gate or <br> Vertical Barrier (arm) | $\mathrm{A}, \mathrm{B} 1^{*}, \mathrm{~B} 2^{*} \mathrm{C}$ or D |

A - Inherent (built into the gate operator) entrapment protection.
B1 - Non-contact sensor such as photo-eye or equivalent.
B2 - Contact sensor such as edge sensor or equivalent.

* UL 325 requires that B1 and B2 means of entrapment protection must be MONITORED.

Swing Gate Recommendations


Gates should have smooth bottom edges, with vertical bottom edged protrusions not exceeding 0.50 inches.

2 If distance is less than 16 inches, entrapment protection in this area is recommended.
(1) If distance is greater than 4 inches, entrapment protection for this area is recommended.


The operator is intended for installation ONLY on gates used for vehicles. Pedestrians should be supplied with a separate access opening. The pedestrian access opening should 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.

## Important Safety Information

## WARNING <br> To reduce the risk of injury or death read and follow the instructions

1. Never let children operate or play with gate controls. Keep the remote control away from children.
2. Always keep people and objects away from gate. NO ONE SHOULD CROSS THE PATH OF THE MOVING GATE.
3. Test the 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.
4. Use the emergency release ONLY when the gate is not moving and verify that operator power has been turned OFF.
5. KEEP GATES PROPERLY MAINTAINED. Read the owner's manual. Have a qualified service person make repairs to gate hardware.
6. The entrance is for vehicles only. Pedestrians must use separate entrance.
7. SAVE THESE INSTRUCTIONS.

## General Safety Information

## $\triangle$ CAUTION

Be sure to read and follow all the Eagle Access Control Systems, Inc. and UL instructions before installing and operating any Eagle Access Control System, Inc. products. Eagle Access Control Systems, Inc. is not responsible for any improper installation procedures caused by failure to comply with local building codes.

## Install Warning Signs



Install warning signs on BOTH sides of the gate.

## Installing Opening Devices

Be sure to mount ALL gate operating devices at least six feet (6') away from any moving part of the gate. They must NOT be able to be operated reaching through the gate.


## SAMPLE SINGLE GATE INSTALLATION SETUPS

An experienced installer should perform the installation. Improper installation may result in property damage, severe injury or death. Read the entire manual before proceeding with the installation.
Eagle Access Control Systems, Inc. is not responsible for researching and complying with local building codes. Be sure to check all local building codes before installation.

These drawings are typical and is supplied as working model from which to choose the electronic components making up the single gate installation. Dual gates setup is on the next page. These drawings do not lay down any requirements regarding the installation of the gate operator. Please see the previous pages for safety and general gate recommendations. Any external safety devices get wired to the control box in


## SAMPLE DUAL GATES INSTALLATION SETUPS

These drawings are typical and is supplied as working model from which to choose the electronic components making up the dual gates installation. These drawings do not lay down any requirements regarding the installation of the gate operators. Please see the pages 2-5 for safety and general gate recommendations.
Any external safety devices get wired to the control box in conduit when possible.


## DISASSEMBLE OPERATOR

## Step 1 - Release Stroke Pin

The stroke pin must be released before installation.

1. Unlock with Key and open door.
2. Flip orange handle forward.
3. Stroke pin can now be moved.

NOTE: The stroke pin can REMAIN UNLOCKED by simply removing the orange handle in the released position.
4. To Lock Stroke Pin again: Flip orange handle back to original position.
5. Close and lock door.

## Step 2 - Remove Cover to Access Limit Assembly

1. Remove two 5 mm allen screws
2. Slide cover off.


## MOUNT ARM



## MOUNT CONTROL BOX



## OPEN INSIDE MOUNTING DIMENSIONS



Install gate overlap on M1 gate. M1 opens first and closes last. Install maglock accordingly.

| $\left.\mathbf{(}^{\circ}\right)$ | A" | B" | C" |
| :---: | :---: | :---: | :---: |
| 90 | $63 / 4$ | 7 | $43 / 4$ |
| 90 | $71 / 4$ | 7 | $43 / 4$ |
| 90 | 8 | $51 / 4$ | $43 / 4$ |
| 110 | $63 / 4$ | $63 / 4$ | $43 / 4$ |
| 110 | $51 / 2$ | 6 | $43 / 4$ |
| 110 | 6 | 6 | $43 / 4$ |

The position of the brackets establishes the maximum opening angle and the length of the actuator's linear stroke.
The longer the stroke, the greater the torque and smoother movements of the gate. The shorter the stroke, the less the torque and more abrupt movements of the gate.

## OPEN OUTSIDE MOUNTING DIMENSIONS

Only to be used with the X9L - Long Arm


The position of the brackets establishes the maximum opening angle and the length of the actuator's linear stroke.
The longer the stroke, the greater the torque and smoother movements of the gate. The shorter the stroke, the less the torque and more abrupt movements of the gate.


## ADJUST PHYSICAL LIMITS

Operator Must be in released position (Unlocked). Cover MUST be removed.

Manually move gate to CLOSED position. Slide CLOSE limit switch until it activates (clicks). Spin mechanical stop until it touches limit switch and tighten it down.

Manually move gate to OPEN position.
Slide OPEN limit switch until it activates (clicks). Spin mechanical stop until it touches limit switch and tighten it down.
Re-lock operator and reinstall cover.
Repeat process with second operator if installed.


## 120 VAC INPUT POWER CONNECTION



Never run low voltage wires in the same conduit as high


## $\triangle$ caution

Be sure that the circuit breaker for the input power is turned OFF before connecting the input power to the operator.
All operators MUST be properly grounded. Installing surge protection is recommended.

WARNING: Eagle Access Control Systems, Inc. is not responsible for researching and complying with local building codes. Be sure to check all local building codes before installation.

Wire Color Description


Pulling the 4 Amp fuse will shut-off power.

IMPORTANT: DO NOT cycle the operator before physically setting the limit switches (see above) AND programming has been completed (see pages 23-24). Damage or injury could occur.

## PHOTO EYE INSTALLATION



## OPEN INSIDE - SINGLE OPERATOR \& PHOTO EYE WIRING



Operator MUST OPEN after initial power up. If operator begins to close, shut-off power and reverse Red and Black wires.

## OPEN OUTSIDE - SINGLE OPERATOR \& PHOTO EYE WIRING

Only to be used with the X9L - Long Arm


## OPEN INSIDE - DUAL OPERATORS \& PHOTO EYE WIRING



## OPEN OUTSIDE - DUAL OPERATORS \& PHOTO EYE WIRING

Only to be used with the X9L - Long Arm


Operator MUST OPEN after initial power up. If operator begins to close, shut-off power and reverse Red and Black wires.

## WIRING ACCESSORIES



## ADVANCED ACCESSORY CONNECTION <br> Used with the 13-Pin Terminal - Entrapment Protection

## Photo Eye OPENING Direction

Mount photo eye in position shown and run wire to control box in conduit.
Top View


13-Pin Terminal


Sensing Edge Installation and Wiring


Side View



## LOOP DETECTORS

## Reverse, Phantom (Shadow) and Exit In-Ground Loop Installation



Cutaway of Groove
Loop wire must be wrapped inside the groove three times. Fill the grooves with a proper sealant.

Reversing and phantom loops are used to prevent the gate from closing on a vehicle while it is in the gates swinging path (CAUTION: phantom loop is ONLY active when gate is FULLY open, NOT during the closing cycle). An exit loop is used to automatically open the gate when a vehicle approaches to exit. An experienced installer should perform this installation.


## Loop Feed

Loop feed must have the loop wires twisted in them approximately 6 twists per foot.


External Loop Detector
Connect loop feed wires directly to external loop detector.


Exit Loop Detector


DIP-Switch 7 OFF

## DIP-SWITCH DESCRIPTIONS




Turn DIP-switch OFF for any CONNECTED device will INCLUDE them in Programming. Turning DIP-switch ON will EXCLUDE the corresponding terminal input.


| Switch | Set |  | Description |
| :---: | :---: | :---: | :---: |
| BSC \#1 | OFF | (1)M | Closing sensing edge installed on terminal \#2-BSC. |
|  | ON | OV10 | Excludes the closing sensing edge input on terminal \#2-BSC. NOTE: Terminal \#2-BSC must remain disconnected. |
| BSA \#2 | OFF | [10] | Opening sensing edge installed on terminal \#3-BSA. |
|  | ON | OV | Excludes the opening sensing edge input on terminal \#3-BSA. NOTE: Terminal \#3-BSA must remain disconnected. |
| FT1 \#3 <br> 12 | OFF | - | CLOSING Photocell has been installed on terminals \#4-FT1 \& 12 |
|  | ON | $\xrightarrow{\text { ON }}$ | Excludes the closing photocell input on terminals \#4-FT1 \& 12 NOTE: Terminals \#4-FT1 \& 12 must remain disconnected. |
| FT2 \#4 | OFF | (10] | Photocell has been installed on terminal \#5-FT2. |
|  | ON | ${ }_{4}^{10}$ | Excludes the photocell input on terminal \#5-FT2. NOTE: Terminal \#5-FT2 must remain disconnected. |
| J1 \#5 2 | OFF | (100] | Device has been installed on terminals \#6-J1 \& 2 |
|  | ON | $\stackrel{\text { ON }}{ }$ | Excludes the J 1 input on terminals \#6-J1 \& 2 NOTE: Terminals \#6-J1 \& 2 must remain disconnected. |
| J2 \#6 | OFF | \% ${ }^{\text {OM }}$ | Device has been installed on terminals \#7-J2 \& 3 |
|  | ON | ${ }^{\text {ON }}$ | Excludes the J 2 input on terminals \#4-J2 \& 3 <br> NOTE: Terminals \#7-J2 \& 3 must remain disconnected. |
| STP \#7 | OFF | (100] | Stop Button has been installed on terminal \#11-STP. |
|  | ON | ${ }^{\text {ON }}$ | Excludes the Stop Button input on terminal \#11-STP. NOTE: Terminal \#11-STP must remain disconnected. |

## DIP-SWITCH DESCRIPTIONS



P/P
After changing DIP-switches, changes will take effect after:

- Resetting the ECU (Momentarily short reset pins to RESET)

J - Shut power OFF and back ON again.

- At the end of a complete gate cycle the new settings

Pres. Rich US C. Sg Rall. C.Ch 2 M. Fot.R

ON / OFF


Pulling the 4 Amp fuse will shut-off power.


Momentarily short pins to reset control board.


## PROGRAMMING \& ADJUSTMENTS

## Program Travel Distance and Pause Time to Close Gate(s)

Limit switches and mechanical stops MUST be CORRECTLY positioned BEFORE programming either SINGLE or BI-PARTING gates on next page.

DIP-Switch 9-Rall. ON DURING programming: Self-learning cycle that slows down after 5 SEC so it can find the mechanical travel limit safely.
Rall. Use this setting for longer and/or heavier gate.
DIP-Switch 9-Rall. OFF DURING programming: Rapid mechanical travel limit detection without slow down.

## 모무룰 <br> 2 I

DIP-Switch 11-2 M OFF for SINGLE Gate.
DIP-Switch 11-2 M ON for Bi-Parting Gates.


BSC, BSA, FT1, FT2, J1, J2 and STP MUST be LIT


BSC, BSA, FT1, FT2, J1, J2, PC, PA and STP MUST be LIT BEFORE beginning programming, check the correct DIP-Switch settings and connections by observing the leds:


OPTIONAL Slow Down programming: Not required to complete programming. Typically used with uneven opening, longer or heavier gates.
DIP-Switch 9 set to ON only AFTER programming complete. The OPTIONAL programmed slow down times will be enabled.

## SINGLE Gate Programming



LD1


Hold down the PROG button for at least 3 seconds until led LD1 lights up. "Programming mode" has been activated.

Press the $\mathbf{P} / \mathbf{P}$ button. The gate should begin to CLOSE, if it opens instead, shut-off the power, reverse motor M1 Red and Black wires and start again.
Shut-off the power. Manually release the operator and move to an almost fully open position. Re-lock operator and turn power back ON.

When gate has closed it will stop and start opening automatically.


When the gate has opened completely (reaching the mechanical stop), PAUSE TIME memorization will start automatically. NOTE: If automatic reclosing pause is not desired you may press $\mathbf{P} / \mathbf{P}$ button immediately.

NOTE: If the operator stops before reaching the travel limit, decrease the TR1 reversing sensitivity adjustment (clockwise).


7


Gate will begin to close.


When the gate has closed completely, the motor will stop, led LD1 will turn OFF and programming mode ends.

## BI-PARTING Gates Programming

See "Programming Travel Distance and Pause Time to Close Gate(s)" statements about DIP-Swich settings etc. on previous page BEFORE programming Bi-Parting gates.


When the gate with M2 Operator completely closes, M1 Operator will begin to close.


When the gate with M1 Operator has closed completely, the motor will stop, led LD1 will turn OFF and programming mode ends.

## MODIFY PROGRAMMED PAUSE TIME TO CLOSE GATE

This procedure allows you to modify the pause time set during previous programming procedure. This operation must be carried out with the gate CLOSED.


Press the PROG button again, LD1 will start to flash and start to memorize the pause time.

Once the desired pause time has elapsed, press the PROG button again. LD1 will turn off and the procedure will terminate.

## LEARN REMOTE BUTTON

## LEARN Remote Button

1. Press and release button on the receiver. LED will turn red.
2. Press button on remote twice and the LED will flash and turn back to green.
3. Repeat steps for other desired remote buttons.
4. To delete all remotes, hold the receiver program button for 8 seconds.
5. The EG650 receiver has a maximum capacity of 30 remotes.

Optional: EG652 receiver has a maximum capacity of 300 remotes.

Leave antenna wire coiled up inside box for limited range or run antenna through a hole in the bottom of box to increase wireless range.


Eagle Wireless Keypad Eagle Part Number: EG654

## ADJUST REVERSE SENSOR

Carry out the impact test and adjust the motor force by rotating the trimmer (TR1).
If this is not sufficient, we advise you to install a rubber protective edge at the head of the gate so as to soften the impact. If you have adjusted the sensitivity setting and added a rubber profile to the head of the gate and you are still unable to satisfy the standards in force, you will need to add other safety devices such as a sensitive safety edge to the moving part of the gate.
 will stop gate cycling when pressed. TOO sensitive - If the gate stops or reverses by itself.
NOT sensitive enough - If the gate strikes an object and does NOT stop or reverse.

TR1 adjusts for both the OPENING direction and CLOSING direction of the gate. Both directions MUST be adjusted. Adjustment must be made so that the gate stops and reverses when meeting an obstruction.

Proper function of reverse sensor:
When meeting an obstruction in the CLOSING direction, the gate will STOP, reverse direction and return to the FULL OPEN position. When meeting an obstruction in the OPENING direction, the gate will STOP and reverse its direction and stop again after 4-6 inches.

## POWER FAIL OPERATION

Before performing procedure, make sure you disconnect the entire automation from the electrical supply, even if it is currently unpowered due to a power outage. Any electric locks must be specified and released for manual operations.

1. Unlock with Key and open door.
2. Flip handle forward to released position (Unlocked).
3. Gate can be manually operated. Grab the end of the gate to move it. DO NOT grab the gate operator to move the gate.

NOTE: The gate leaf can REMAIN UNLOCKED and the door can be closed and relocked by simply removing the orange handle in the released position.
4. To Lock Operator again: Flip orange handle back to original position.
5. Close and lock door. Operator is ready for normal operation again.

## CONTROL BOX WIRING DIAGRAM



## X9 REPLACEMENT PARTS ILLUSTRATION

Eagle Parts List on next page.


## CONTROL BOX REPLACEMENT PARTS ILLUSTRATION

Eagle Parts List on next page.


Eagle Parts List on next page.


## X9 REPLACEMENT PARTS LIST

| Item | X9-Number | Part Description |
| :---: | :---: | :--- |
| 1 | X9002 | X9 Operator Cover (Removable) |
| 2 | X9004 | X9 Cover Bolt (x2) |
| 3 | X9006 | X9 Key |
| 4 | X9008 | X9 Lock |
| 5 | X9010 | X9 Manual Release Handle |
| 6 | X9012 | X9 Limit Plate |
| 7 | X9014 | X9 Limit Switch (x2) |
| 8 | X9016 | X9 Stroke Screw Shaft |
| 9 | X9018 | X9 Stroke Pin Assembly |
| 10 | X9020 | X9 Mechanical Stop (x2) |
| 11 | X9022 | X9 Motor Assembly / Motor Housing |
| 12 | X9024 | X9 Motor Cable |
| 13 | X9026 | X9 Rear Bracket |
| 14 | X9028 | X9 Rear Bracket Securing Bolt Assembly |
| 15 | X9030 | X9 Front Bracket |
| 16 | X9032 | X9 Front Bracket Securing Bolt Assembly |
| 17 | X9034 | Warning Sign |
| 18 | X9035 | Dual Operator Kit |
|  |  |  |
|  |  |  |

## CONTROL BOX REPLACEMENT PARTS LIST

| Item | X9-Number | Part Description |
| :---: | :---: | :--- |
| A | X9036 | Step-Down Transformer |
| B | X9038 | X9 Control Board |
| C | X9040 | 14-PIN Terminal Board |
| D | X9042 | T4 Amp Fuse |
| E | X9044 | Input Power Terminal On/Off Switch |
| F | X9046 | F16 Amp Fuse |
| G | X9048 | F3 Amp Fuse |
| H | X9050 | Eagle Transmitter |
| I | X9048 | Control Box Assembly (Complete) |
| J | X9048 | Plastic Control Box ONLY |



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