Gate Operator and Control Box Mounting

Vehicular Swing Gate Operator

To wire this operator and complete the installation, refer to a specific control box "Wiring/Owner's manual".

6004-065-R-7-18

Entrapment Protection must be provided for the gate system where the risk of entrapment or obstruction exists. The operator will NOT run without one or more monitored type B1 or B2 entrapment protection devices in EACH entrapment area.



Leave Manual with Owner

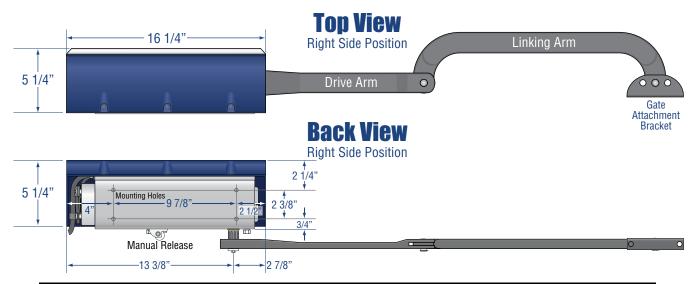
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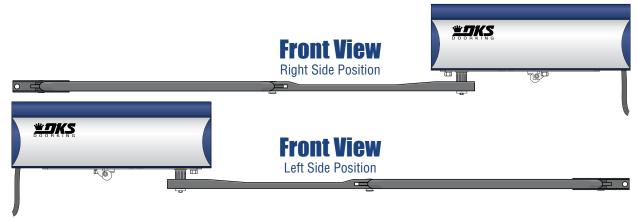
6004 SPECIFICATIONS

Model 6004 - UL 325 Class I Class of Operation_ Type of Gate Vehicular Swing Gates Only Type of wiring to be used on ALL external devices: **Gate Operator Voltage** 24 VDC A) Type CL2, CL2P, CL2R, or CL2X. B) Other cable with equivalent or better electrical, Current 3 Amps mechanical, and flammability ratings. **Motor Torque** 300 Nm Max Gate Weight_ 300 Lbs. Max Gate Length_ 8 Feet Cycles Per Hour_ 20 Per Hour with AC connected (Cycles will vary with battery power ONLY) 90° in approximately 18 seconds Speed_ **Control Box Types** • 115 VAC 60 Hz Single Phase Input Power - 24 VDC Output Power to Gate Operators • 24 Volt Solar Input Power - 24 VDC Output Power to Gate Operators



Entrapment Protection must be provided for the gate system where the risk of entrapment or obstruction exists.

The operator will not run without one or more monitored type B1 or B2 entrapment protection devices in EACH entrapment area.



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Quick Guide for 6004 Limit Sensors

19

For installers familiar with DoorKing products.

ASTM F2200 Standard for Gate Construction

Vehicular gates should be constructed and installed in accordance with ASTM F2200; Standard Specification for Automated Vehicular Gate Construction. For a copy of this standard, contact ASTM directly at 610-832-9585; service@astm.org; or www.astm.org.

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 gate. NO ONE SHOULD CROSS THE PATH OF THE MOVING GATE.
- 4. Test the operator monthly. The gate MUST reverse on contact with a rigid object or stop or reverse 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!

Instructions regarding intended installation:

- · Install the gate operator only if:
 - 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 6 feet (1.83 m) above the ground to prevent a 2 ¼ 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.
 - 4. Guarding is supplied for exposed rollers.
- 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.
- 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 should not open into public access areas.
- 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, pressure relief valve or reduce reversing sensitivity to compensate for a damaged gate.
- 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. A warning placard 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.
 - 4. No other activation device shall be connected.
- 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 should have a security feature to prevent unauthorized use.
- 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.
- A minimum of two (2) WARNING SIGNS shall be installed, one on each side of the gate where easily visible.
- · For gate operators utilizing a non-contact sensor:
 - **1.** See the 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 in the opening direction.
 - 3. One or more non-contact sensors shall be located where the risk of entrapment or obstruction exist, such as the perimeter reachable by a moving gate or barrier.
- · For gate operators utilizing contact sensors:
 - 1. One or more contact sensors shall be located where the risk of entrapment or obstruction exist, 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 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 obstructions. A wireless contact sensor shall function under the intended end-use conditions.
 - **6.** One or more contact sensors shall be located at the bottom edge of a vertical barrier (arm).
- · Be sure you have instructed the owner of the gate operator about safe and proper operation and testing of the gate operator.

Important Notices

Vehicular gate operator products provide convenience and security. However, gate operators must use high levels of force to move gates and most people underestimate the power of these systems and do not realize the potential hazards associated with an incorrectly designed or installed system. These hazards may include:

- Pinch points
- · Entrapment areas
- · Reach through hazards
- Absence of entrapment protection devices
- · Improperly located access controls
- · Absence of vehicle protection devices
- Absence of controlled pedestrian access

In addition to these potential hazards, automated vehicular gate systems must be installed in accordance with the UL 325 Safety Standard and the ASTM F2200 Construction Standard. Most people are unaware of, or are not familiar with, these standards. If an automated vehicular gate system is not properly designed, installed, used and maintained, serious injuries or death can result. Be sure that the installer has instructed you on the proper operation of the gate and gate operator system.

Be sure that the installer has trained you on proper and safe operation of this gate operating system and about the basic functions of the required reversing systems associated with your gate operating system and how to test them. These include reversing loops, inherent reversing system, electric edges, photoelectric cells, or other external devices.

- · This Owner's Manual is your property. Keep it in a safe place for future reference.
- Be sure that all access control devices are installed a minimum distance of 6 feet away from the gate and gate operator, or in such a way that a
 person cannot touch the gate or gate operator while using the device. If access control devices are installed in violation of these restrictions,
 immediately remove the gate operator from service and contact your installing dealer.



Opening device MUST be mounted a minimum of 6 feet from the gate and NOT accessible through the gate!

- Loops and loop detectors, photo-cells or other equivalent devices must be installed to prevent the gate from closing on vehicular traffic.
- The speed limit for vehicular traffic through the gate area is 5 MPH. Install speed bumps and signs to keep vehicular traffic from speeding
 through the gate area. Failure to adhere to posted speed limits can result in damage to the gate, gate operator, and to the vehicle.
- Be sure that all persons who will use the gate system are familiar with the proper use of the gate and gate operator and are familiar with the possible hazards associated with the gate system.
- · Be sure that warning signs are permanently installed on both sides of the gate in an area where they are fully visible to traffic.
- It is your responsibility to periodically check all entrapment protection devices. If any of these devices are observed to function improperly, remove the operator from service immediately and contact your installing or servicing dealer.
- Follow the recommended maintenance schedule.
- Do not allow children to play in the area of the operator or to play with any gate-operating device.
- To remove the gate operator from service, operate the gate to the full open position and then shut off power to the operator at the service panel.

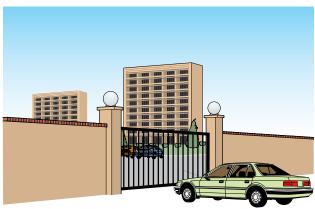
UL 325 Entrapment Protection

UL 325 Classifications



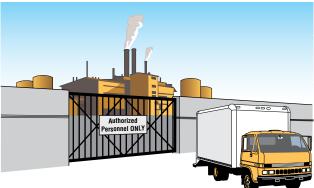
Class I - Residential Vehicular Gate Operator

A vehicular gate operator (or system) intended for use in garages or parking areas associated with a residence of one-to four single families.



Class II - Commercial/General Access Vehicular Gate Operator

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 buildings accessible by or servicing the general public.



Class III - Industrial/Limited Access Vehicular Gate Operator

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 accessible by or intended to service the general public.



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.

Gate Operator Category

Effective January 12, 2016	Horizontal Slide, Vertical Lift, Vertical Pivot	Swing, Vertical Barrier (Arm)
Entrapment Protection Types	A, B1*, B2* or D	A, B1*, B2*, C or D

- Type A Inherent entrapment protection system.
- Type B1 Non-contact sensor (photoelectric sensor or the equivalent).
- **Type B2** Contact sensor (edge device or equivalent).
- Type C Inherent force limiting, inherent adjustable clutch or inherent pressure relief device.
- Type D Actuating device requiring constant pressure to maintain opening or closing motion of the gate.
- * B1 and B2 means of entrapment protection must be MONITORED.

Vertical Barrier Note: Barrier gate operators (arm) that is not intended to move toward a rigid object closer than 16 inches (406 mm) are not required to be provided with a means of entrapment protection.



GATE - A moving barrier such as a swinging, sliding, raising, lowering, or the like, barrier, that is a stand-alone passage barrier or is that portion of a wall or fence system that controls entrance and/or egress by persons or vehicles and completes the perimeter of a defined area.

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 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), hotels, 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.

VEHICULAR BARRIER (ARM) OPERATOR (OR SYSTEM) - An operator (or system) that controls a cantilever type device (or system), consisting of a mechanical arm or barrier that moves in a vertical arc, intended for vehicular traffic flow at entrances or exits to areas such as parking garages, lots or toll areas.

VEHICULAR HORIZONTAL SLIDE-GATE OPERATOR (OR SYSTEM) - A vehicular gate operator (or system) that controls a gate which slides in a horizontal direction that is intended for use for vehicular entrance and exit to a drive, parking lot, or the like.

VEHICULAR SWING-GATE OPERATOR (OR SYSTEM) - A vehicular gate operator (or system) that controls a gate which moves in an arc in a horizontal plane that is intended for use for vehicular entrance and exit to a drive, parking lot, or the like.

SYSTEM - In the context of these requirements, a system refers to a group of interacting devices intended to perform a common function.

WIRED CONTROL - A control implemented in a form of fixed physical interconnections between the control, the associated devices, and an operator to perform predetermined functions in response to input signals.

WIRELESS CONTROL - A control implemented in means other than fixed physical interconnections (such as radio waves or infrared beams) between the control, the associated devices, and an operator to perform predetermined functions in response to input signals.

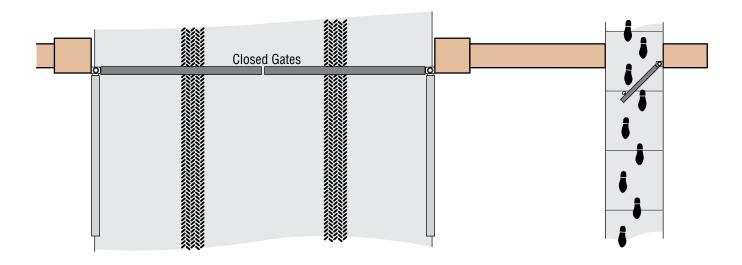
INHERENT ENTRAPMENT PROTECTION SYSTEM - A system, examples being a motor current or speed sensing system, which provides protection against entrapment upon sensing an object and is incorporated as a permanent and integral part of the operator.

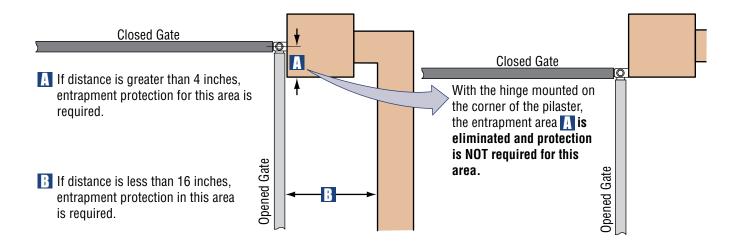
EXTERNAL ENTRAPMENT PROTECTION DEVICE - A device, examples being an edge sensor, a photoelectric sensor, or similar entrapment protection device, which provides protection against entrapment when activated and is not incorporated as a permanent part of an operator.

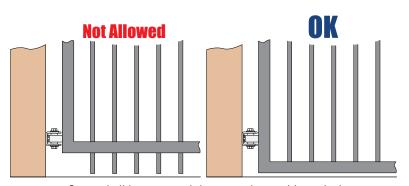
ENTRAPMENT - The condition when an object is caught or held in a position that increases the risk of injury.

Swing Gate Requirements

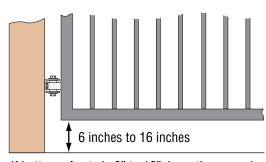
The operator is intended for installation only on gates used for vehicles. Pedestrians must be supplied with a separate access opening. The pedestrian access opening shall be designed to promote pedestrian usage. Locate the gate such that persons will not come in contact with the vehicular gate during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







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



If bottom of gate is 6" to 16" above the ground at any part of the gate's traveling path, entrapment protection for this area is required.

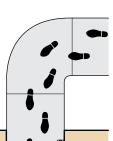
Swing Gate Protection

Reverse Loop

Minimizes the potential of the gate closing when a vehicle is present. Number and placement of loops is dependent on the application.

□ Non-contact Sensor

Minimizes the potential of the gate **closing** on vehicular or other traffic that loops cannot sense. Monitored device helps protect against entrapment when needed.



C

Shadow Loop

Provides a hold open command to the operator(s) only if the gate(s) are at the full open position.

Note: Not used for solar control box installations.

Warning Signs

D

1

FU

Permanently mounted and easily visible from either side of the gate.





Located so pedestrians cannot come in contact with the vehicular gate.

Reverse Loop

Minimizes the potential of the gate closing when a vehicle is present. Number and placement of loops is dependent on the application.

device helps protect against entrapment when needed.

cannot sense. Monitored

the gate striking vehicular or other traffic that loops

I Non-contact Sensor
Minimizes the potential of

Minimizes the potential of the gate striking vehicular or other traffic that loops cannot sense. Monitored device helps protect against entrapment when needed.

External entrapment protection is **REQUIRED** for operator to function.

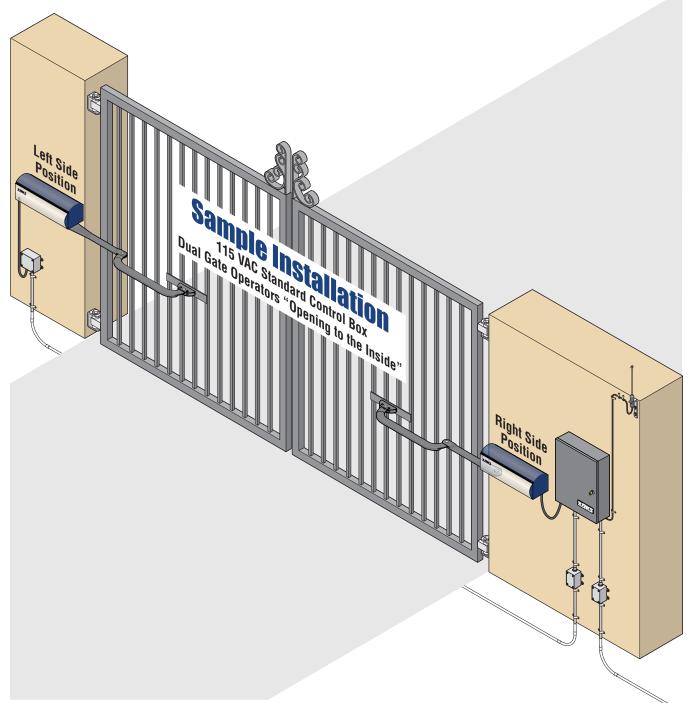
Automatic Exit Loop

(Optional) will provide an open command to the gate operator(s) when a vehicle is exiting the property.

INSTALLATION

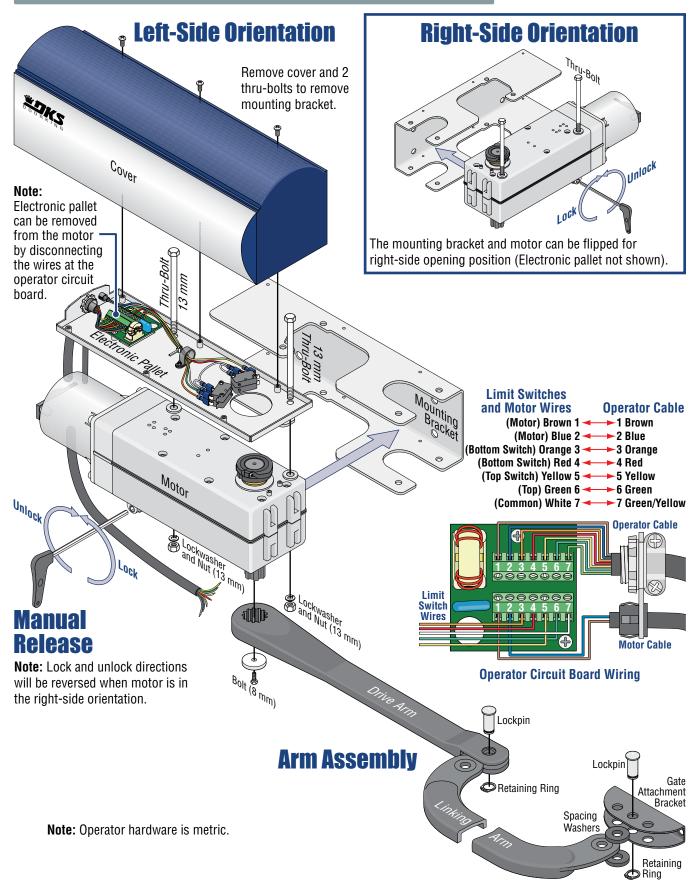
Prior to beginning the installation of the swing gate operator, we suggest that you become familiar with the instructions and illustrations in this manual. This will help insure that your installation is performed in an efficient and professional manner compliant with UL 325 safety and ASTM F2200 construction standards.

The proper installation of the vehicular slide gate operator is an extremely important and integral part of the overall access control system. Check all local building ordinances and building codes prior to installing this operator. Be sure your installation is in compliance with local codes.

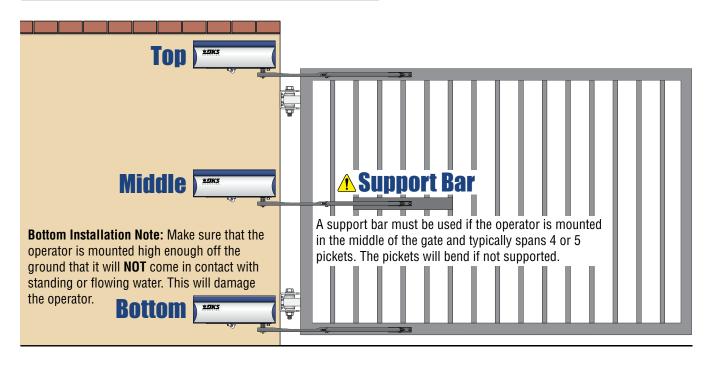


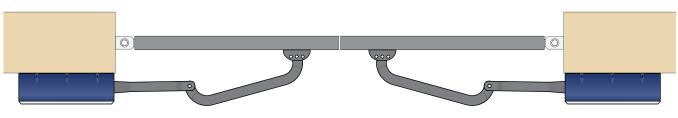
Hinge Placement Note: It's important to consider hinge placement on a pilaster or a thick wall when installing the gate. Placing hinges close to the corner can eliminate a potential entrapment area (See Swing Gate Requirements on page 7).

Operator Description and Disassembly



Operator Mounting Positions





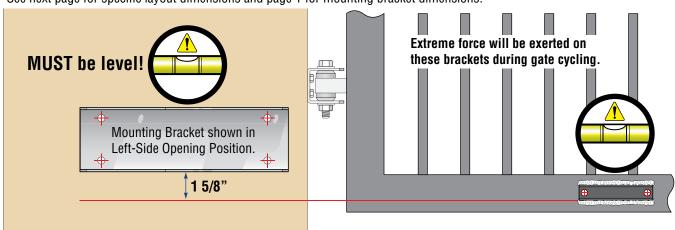
Left-Side Position

See next page for specific layout dimensions and page 1 for operator dimensions.

Right-Side Position

Mounting Bracket and Gate Attachment Bracket

See next page for specific layout dimensions and page 1 for mounting bracket dimensions.

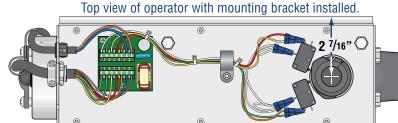


Attach mounting bracket to pilaster or wall with four (4) #10 screws and suitable expansion hardware (Not supplied).

Weld gate attachment bracket to gate or use two (2) suitable screws (Not supplied).

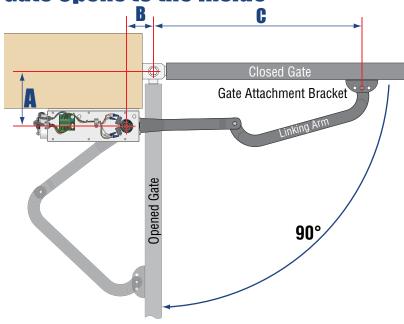
Operator Layouts

Calculate dimension **A** for your specific installation first. That will determine dimension **B** and **C** limitations depending on which gate opening direction you select (See tables below).



Use to help calculate dimension $oldsymbol{\mathbb{A}}$.

Gate Opens to the Inside



Opens to the Inside - Inches

A	В	C max.
2.50 - 4.25	4.25 - 5.00	28.75
4.25 - 6.25	4.25 - 5.00	28.25
6.25 - 8.25	4.25 - 5.00	28.00
8.25 - 10.25	4.25 - 5.00	27.25
10.25 - 12.25	4.25 - 5.00	27.00
12.25 - 14.00	4.25 - 5.00	26.25

"A" Dimension Note: "A" dimension greater than 6.25" will require entrapment protection between the open gate and the column per ASTM F2200.

Gate Opens to the Outside

Gate Attachment Bracket

Note: Measurements are from the center hole of the gate attachment brackets.

Opens to the Outside - Inches

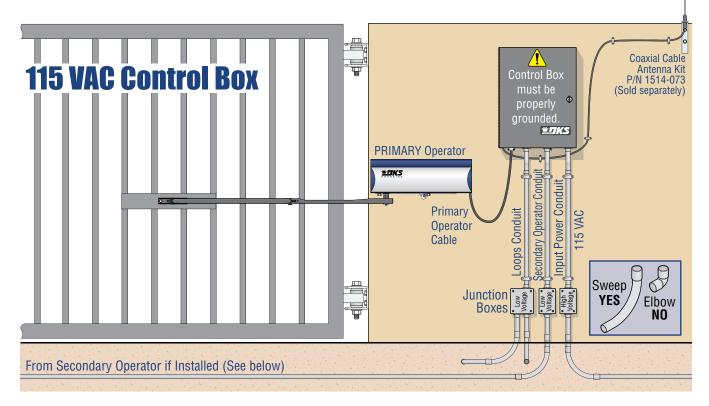
บทดแจ เก เมด กินเอเทด - เมดแดง					
A	В	C max.			
2.50 - 4.25	4.25 - 5.00	17.00			
4.25 - 6.25	4.25 - 5.00	15.00			
6.25 - 8.25	4.25 - 5.00	13.00			
8.25 - 10.25	4.25 - 5.00	11.00			
10.25 - 12.25	4.25 - 5.00	9.50			

Mounting 115 VAC or Solar Control Box with Conduit

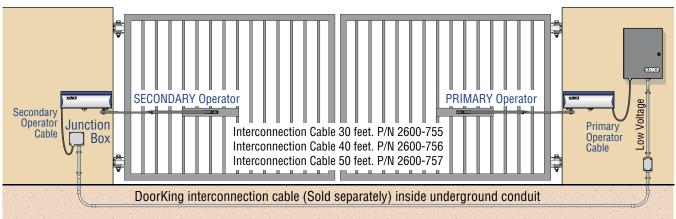
Permanent wiring must be installed to the operator as required by local electrical codes (See the 115 VAC control box Wiring/Owner's manual or Solar control box Wiring/Owner's manual to wire operator). It is recommended that a licensed electrical contractor perform this work. Check local building codes prior to installing any permanent wiring to ensure all wiring and connections comply with local electrical code requirements.

Position the desired control box on the wall, close enough to the operator so the primary actuator cable can be easily routed inside the box. Make sure that the control box is mounted high enough off the ground that it will NOT come in contact with standing or flowing water. This will damage the internal components. Secure the control box to the wall with appropriate hardware (not included). Control box has pre drilled mounting holes. All power and control wires should be routed to control box in conduits with sweeps. Never run low voltage rated wire insulation in the same conduit as high voltage rated wire insulation.

- 3/4" conduit recommended. Use only sweeps for conduit bends and NOT elbow connectors. Elbows will make
 wire pulls very difficult and can cause damage to wire insulation.
- · Remove fragile components from control box to protect them during installation if necessary.
- Installation of External Entrapment Protection is REQUIRED (photo sensor and/or reversing edge).



Dual Gate Operators Connection (115 VAC or Solar)



Mounting Control Box Continued

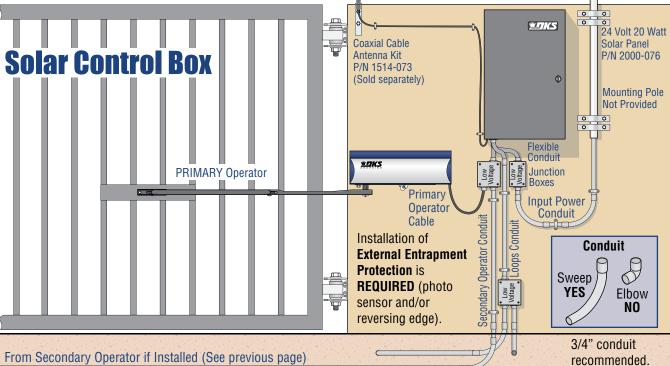
ONLY Mount One 24 Volt Solar Panel!

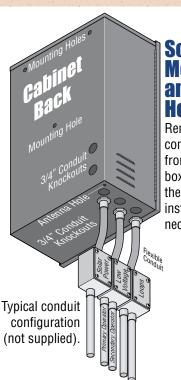
The 24 volt - 10 watt or 20 watt solar panel must be correctly installed for the system to function correctly. See the solar control box Wiring/Owner's manual for more information about concerns, considerations and recommendations for proper solar panel positioning and mounting.

DO NOT use a 12 volt solar panel. Damage WILL occur!!

- One 24 V 10 watt panel required for 18 Amp/Hr batteries. DO NOT USE 10 watt panel with the 35 Amp/Hr batteries.
- One 24 V 20 watt panel required for 35 Amp/Hr batteries.
 DO NOT USE 20 watt panel with the18 Amp/Hr batteries.

24 Volt 10 Watt Solar Panel P/N 2000-077





Solar Cabinet Mounting Holes and Conduit Holes

Remove fragile components from control box to protect them during installation if necessary. DoorKing offers a mounting post kit (P/N 1000-045) when no vertical surface is available to mount the solar control box cabinet to.

To attach post DoorKing reco

To attach post to concrete, DoorKing recommends four (4) 3/8" x 3" sleeve anchors (not supplied). Do Not mount post on asphalt.

Install Warning Signs

This DoorKing Swing Gate Operator is shipped with two warning signs. The purpose of the warning sign is to alert uninformed persons, and to remind persons familiar with the gate system, that a possible hazard exists so that appropriate action can be taken to avoid the hazard or to reduce exposure to the hazard. See page 8 for suggested mounting positions of signs.

- Permanently install the supplied warning signs in locations so that the signs are visible by persons on both sides of the gate.
- Use appropriate hardware such as wood or sheet metal screws (not supplied) to install the warning signs.



In-Ground Loops

To help protect the operator from accidentally closing on vehicles in the gate's path, DoorKing highly recommends that loops and loop detectors be installed. Loops are laid underneath, cut into asphalt or concrete driveways or buried beneath gravel and earth driveways. A loop detection system will sense a vehicle like a metal detector and send a signal to the gate operator preventing the gate from automatically closing on a vehicle when it is in the gate's path. DoorKing recommends that a licensed installer perform this work.

DoorKing offers a free "Loop and Loop-Detectors Information Manual" PDF located at Doorking's web site for more information. www.doorking.com

hicle when it is borking licensed is work.

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Automatic Exit Loop

Automatically opens the gate for exiting vehicles without having to use a transmitter or keypad. The exit loop can be placed a minimum of 4 feet away from the reverse loop or far enough away from the gate so the gate has started or completely opened by the time you drive up to it (Free exit).

Reverse Loops

Reverse loops are placed just outside the gate's swinging path to prevent the gate from closing on a vehicle in these areas. They will reverse the cycling of the gate while a vehicle is in or near the gate's swing pathway.

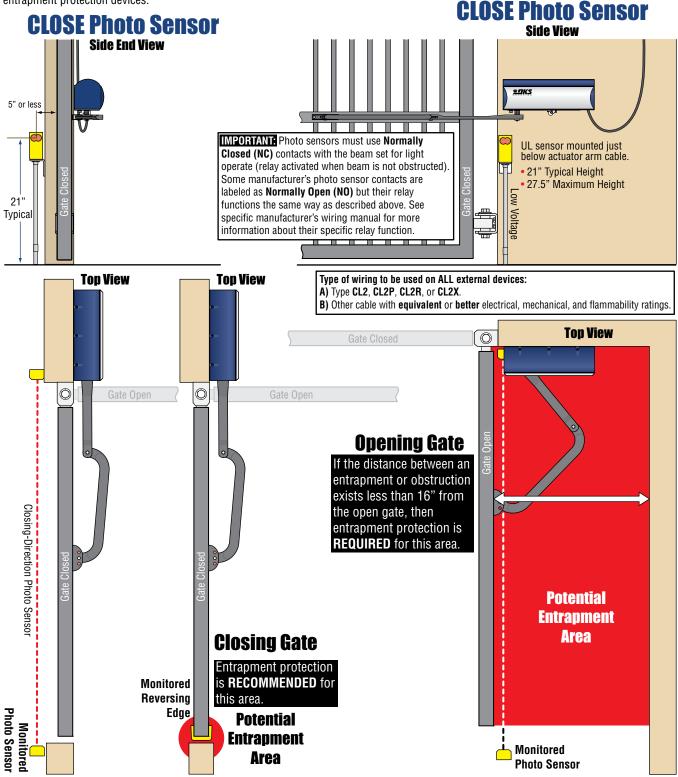
Shadow Loop The shadow loop is placed inside the gate's swinging path to prevent the gate from closing on a vehicle in this area. It is only active when the gate is in the full open position. Vehicles in the shadow area will activate it. It will not allow the gate to close unless this area is clear. After a closing cycle begins, the shadow loop will not reverse the gate. Reverse loops work in conjunction with the shadow loop and both should be used.

PVC conduit to the control box.

Entrapment Protection Positions "Opening to the Inside"

External Entrapment Protection Devices:

In addition to the inherent reversing sensor system, this operator has a UL 325 terminal for the connection of **photo sensors**-Type B1 and/or **reversing edges**-Type B2 entrapment protection required by UL 325 standards. **Entrapment Protection must be provided for the gate system where the risk of entrapment or obstruction exists. The operator will NOT run without one or more monitored type B1 or B2 external entrapment protection devices installed in each entrapment area.** Install these devices where the risk of entrapment or a safety hazard exists. Installations can vary. See the 115 VAC control box Wiring/Owner's manual **OR** Solar control box Wiring/Owner's manual to wire entrapment protection devices.



Accessory Items

UL 325 Monitored Entrapment Protection Devices available for the model 6004 swing gate operator.

Type B2 Contact Sensors (Reversing Edge)

Miller Edge Sensing Edges - all models with a T2 (resistive) termination. Miller Edge wireless monitored transmitter/receiver kit model RB-G-K10

ASO GMBH Sentir GF Series sensing edges

Type B1 Non-contact Sensors (Photo Cell)

Miller Edge Reflective-Guard Model RG

Miller Edge Prime-Guard Model PG

EMX Industries Model IRB-MON

FMX Industries Model IRB-RFT

Omron Model E3K-R10K4

Seco-Larm Model E-936-S45RRGQ

Seco-Larm Model E-960-D90GQ

Monitored Expansion Kit

Miller Edge Multi-Input Module Model MIM-62

Accessory items available for the model 6004 swing gate operator.

Control Box Types - Fully controls actuator arm(s) with built-in battery back-up system.

P/N 4302-111 - 115 VAC Standard Control Box, 115 VAC 60 Hz Input to box, 24 VDC output to gate operator.

P/N 4302-112 - 115 VAC Deluxe Control Box, 115 VAC 60 Hz Input to box, 24 VDC output to gate operator. 3-115 VAC convenience outlets.

P/N 4302-114 - 18 ah Solar Control Box, 24 VDC 20 Watt Input to box, 24 VDC output to gate operator. 2 - 12 Volt 18 Amp Hr batteries.

P/N 2000-075 - One (1) 24 volt 10 watt solar panel required for 18 ah solar control box.

P/N 4302-115 - 35 ah Solar Control Box, 24 VDC 20 Watt Input to box, 24 VDC output to gate operator. 2 - 12 Volt 35 Amp Hr batteries.

P/N 2000-075 - Two (2) 24 volt 10 watt solar panels required for 35 ah solar control box.

Plug-In Loop Detector - Detectors plug directly into ports on circuit board simplifying wiring. (Not for use with the solar control boxes)

Single channel detector - P/N 9410-010

Dual channel detector - P/N 9409-010

Single channel detector with aux relay - P/N 9411-010

Single channel low power draw detector - P/N 9416-010

Dual channel low power draw detector - P/N 9415-010

External Loop Detector

Reno A&E 12/24 VDC or 24 VAC - 9402-045

Reno A&E 120 VAC - 9402-047

Carlo Gavazzi 24 VAC/VDC - 9402-044

Diablo 10-30 VAC/VDC low power draw - 9402-050

Loop Hardware - DoorKing offers a complete line of loop components to complete your gate operator system.

See DoorKing's web site - www.doorking.com

See the free manual "Loop and Loop-Detectors Information" PDF located at Doorking's web site - www.doorking.com

Magnetic Lock - Magnetic Gate Lock Kit provides an excellent means to secure swing gates and is a fail-safe device allowing emergency vehicle access upon power outage.

P/N 1216-080 and P/N 1216-081

Interconnection Cable - Interconnect wire cable contains all the necessary wires to interconnect primary / secondary operators.

Cable length 30 feet. P/N 2600-755 Cable length 40 feet. P/N 2600-756 Cable length 50 feet. P/N 2600-757

Time Clock - 7 day time clock can be used to automatically open gate at pre-set time and days. Compact clock fits inside the control box. P/N 2600-791 - 7 day clock

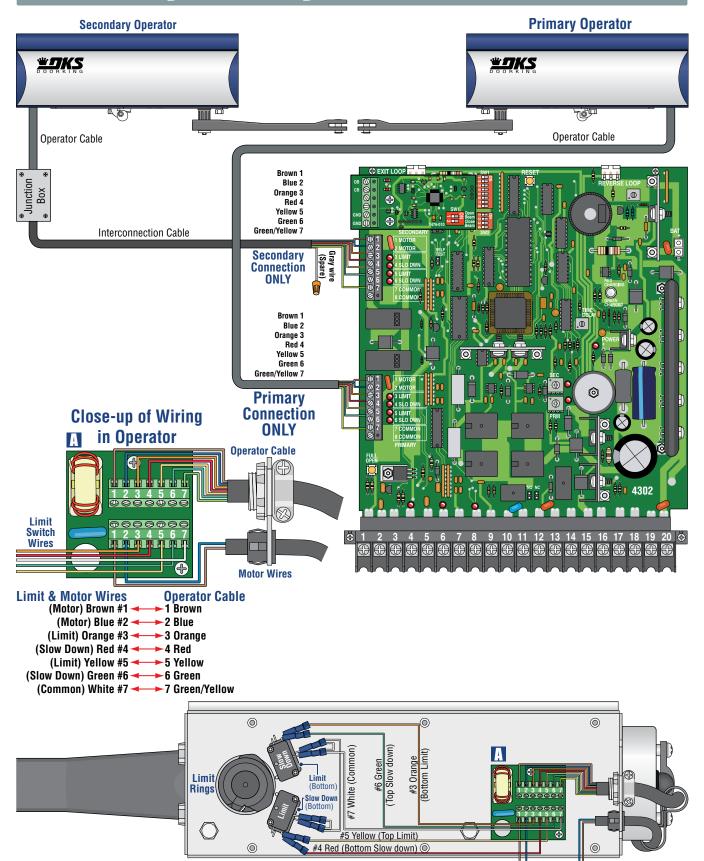
Hinges - Heavy-duty ball bearing hinges provide easy swing gate operation.

P/N 1200-009 (Flange), P/N 1200-019 (Standard), P/N 1200-039 (Heavy-Duty). Two (2) required.

Gate Scale - Use to test torque required to move gate. P/N 2600-225

Speed Bumps - Prefabricated six-foot speed bump reduces traffic speed through gate system. P/N 1610-150

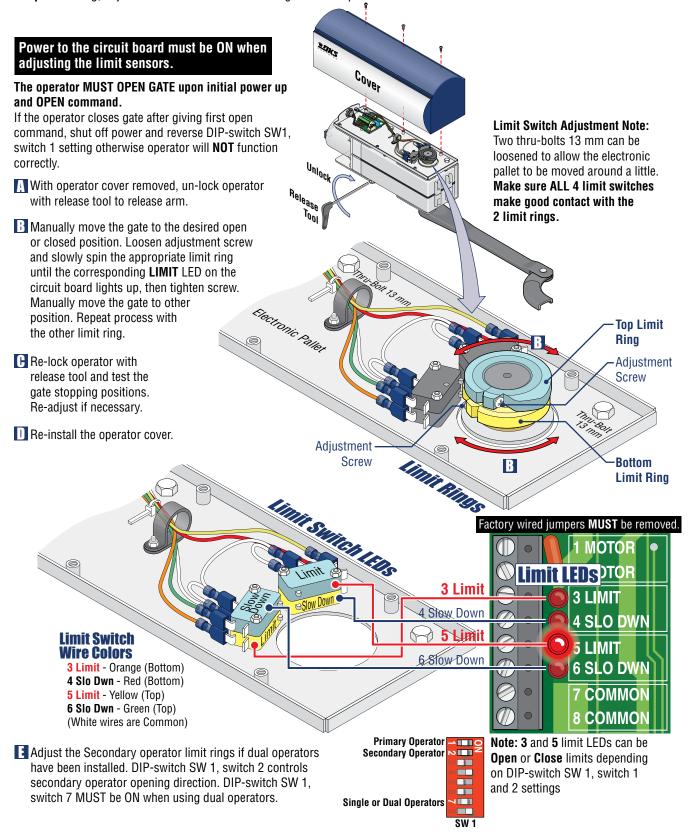
6004 Primary/Secondary 4302 Circuit Board Connection



Motor Wires: #1 Brown and #2 Blue

Quick Guide for 6004 Limit Sensors

This guide is for installers familiar with DoorKing products **ONLY**. **DO NOT** use this as your **only** source to wire, adjust limit sensors and DIP-switches if you are **unfamiliar** with this operator. Please refer to the control box manual you are installing for **complete** wiring, adjustments and DIP-switch settings for this operator.



Gate Operator and Control Box Mounting

Vehicular Swing Gate Operator

To wire this operator and complete the installation, refer to the specific control box "Wiring/Owner's manual".

6004-065-R-7-18

Entrapment Protection must be provided for the gate system where the risk of entrapment or obstruction exists. The operator will NOT run without one or more monitored type B1 or B2 entrapment protection devices in EACH entrapment area.

UL 325 August 2018 Standard



THIS PRODUCT IS TO BE INSTALLED AND SERVICED BY A TRAINED GATE SYSTEMS TECHNICIAN ONLY. Visit www.dkslocator.com to find a professional installing and servicing dealer in your area.

www.doorking.com

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