

DSP Arm Controller Control Box **SETTINGS** Overview

DIP-Switches

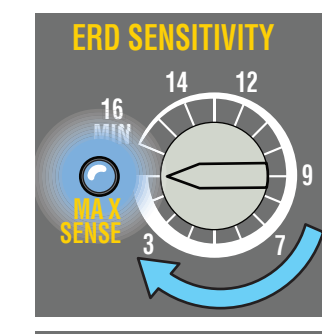
MODE B Switches	Switch	Setting	Description
1	Open Relay Pulsed	OFF	Open Relay ON when gate open
		ON	Open Relay Pulsed when gate open
	Secondary Opposite Direction	OFF	Secondary moves same as primary
2		ON	Secondary moves opposite of primary
	Lock on Close	OFF	Stop at close limit switch (see page 33)
3		ON	Stop on overload condition after seeing close limit switch
	Select Gate Length	5-OFF 4-OFF	Gate < 7 FT
		5-OFF 4-ON	7 FT < Gate < 10 ft
		5-ON 4-OFF	10 FT < Gate < 13 ft
4 & 5	5-ON 4-ON	Gate > 13 FT	
		Short Gate < 7 FT - shorter ramp down Long Gate > 10 FT - longer ramp down	
6	Choose Actuator Type	OFF	MAX Strong arm
		ON	MAX Super arm REQUIRED SETTING

MODE A Switches	Switch	Setting	Description
1	Battery Beep Mode	OFF	No beeping when ONLY battery power and gate is in motion.
		ON	Beeping when ONLY battery power and gate is in motion.
2	Gate in Motion Alert	OFF	No alarm while gate in motion
		ON	Alarm while gate in motion
3	Strobe Light Relay Control	OFF	No strobe light control
		ON	Strobe Light Relay (alarm for slider only)
4	Quick-Close	OFF	No quick-close
		ON	Quick-close ON
5	Close Tamper Detect	OFF	No Close Tamper Detect
		ON	Trigger Tamper Relay (alarm for slider only)
6	Stop Input Polarity	OFF	Stop Input NO-connect to GND to activate
		ON	Stop Input NC-disconnect from GND to activate
7	Open Relay Polarity	OFF	Open Relay CLOSED when gate is open
		ON	Open relay OPEN when gate is open
8	Unused		
	UL Closing Photo ON Anti-tailgate	OFF	UL Closing Photo anti-tailgate OFF
9		ON	UL Closing Photo anti-tailgate ON
	10	Reserved	OFF
		ON	DO NOT turn ON

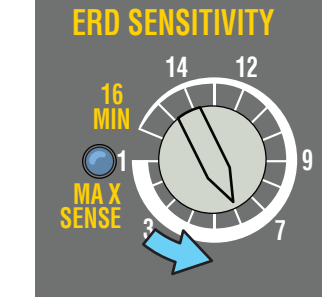
ERD Sensitivity Setting

IMPORTANT: Adjust the ERD to avoid injury as well as to minimize vehicle damage.

- 16 sensitivity setting positions for EACH direction.
- **NO** mechanical hard stops for knobs.



A. Turn knob until blue LED lights up. Maximum sensitivity reached, **Position 1** - Too sensitive for most gates.



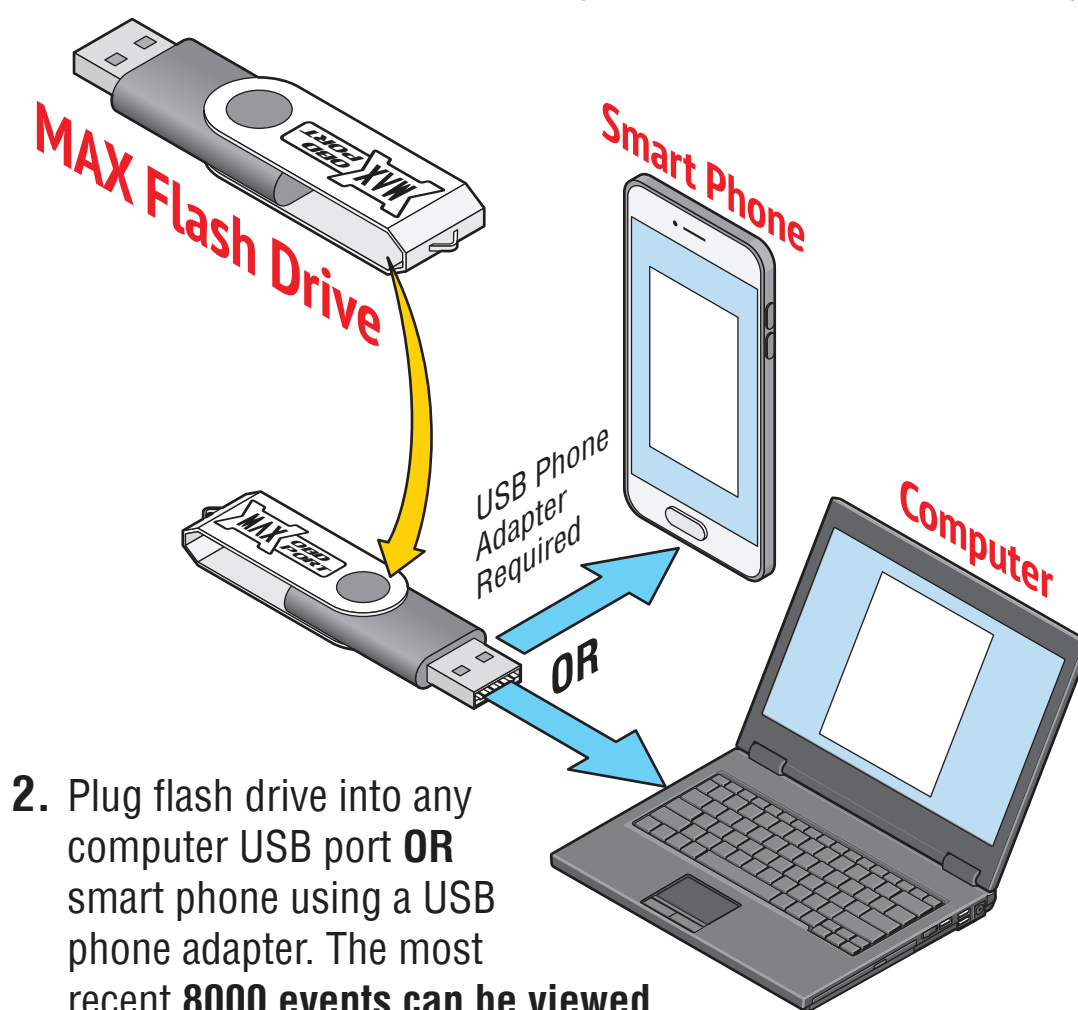
B. Turn knob counter-clockwise to reduce gate sensitivity while testing ERD until desired results is attained. (LED remains OFF for all but position 1)

If alarm sounds while adjusting ERD, press **STOP** BUTTON to shut-off alarm.

NOTE: Cycle the gate 3 or 4 times to make sure that the ERD sensor does not **falsely** trigger.

ODB Port Black Box

1. Plug MAX USB flash drive into **ODB port** on circuit board. OBD LED will flash while file is downloading. Remove flash drive after LED stops flashing (up to 5 minutes to download).



2. Plug flash drive into any computer USB port **OR** smart phone using a USB phone adapter. The most recent **8000 events** can be viewed. No special software required.

Anti-Tailgate

Turned OFF - Close timer will close the gate at its selected time.

Turned ON - (In-ground loops required) Gate will close after all the in-ground loops have been cleared no matter how long the close timer is set for. When an in-ground **safety** loop gets activated during the close cycle, gate will **PAUSE** and **NOT** reopen. When loop is cleared, gate will continue to close preventing **UNAUTHORIZED** entry.

Solar Mode

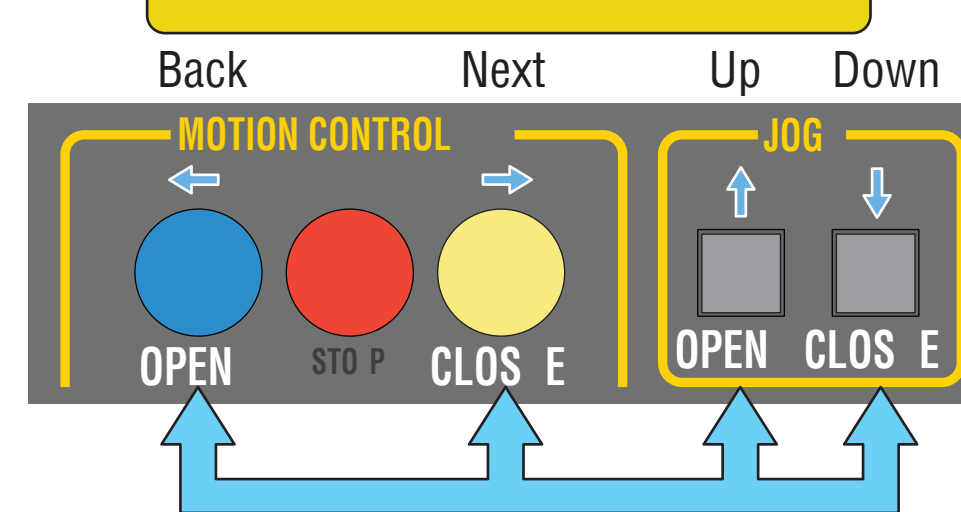
Turned OFF - AC input Power **ONLY**.

Turned ON - Solar panels **installed**. Unit draws min power to extend battery life.

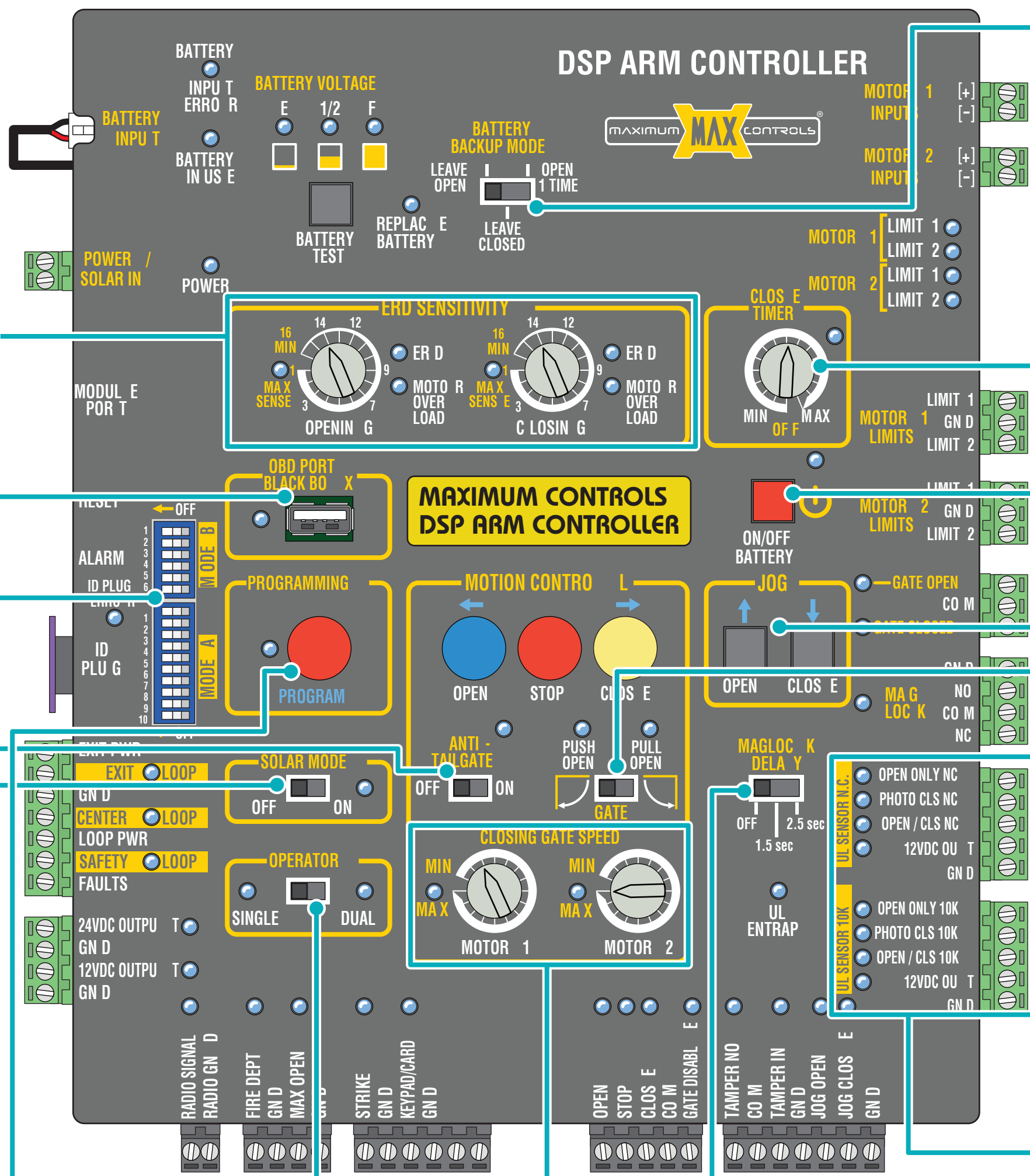
Program Button

Press **PROGRAM** and **STOP** buttons **together** to start programming. Follow instructions on screen using the 4 buttons shown below to program with. Press **ONLY PROGRAM** button again to end programming when finished. **"Date and Time"** **MUST** be programmed in along with other desired features.

PROGRAM INSTRUCTIONS ARE ON SCREEN



Programming Assistant Buttons



Battery Back-Up Mode

LEAVE OPEN - After a power failure, gate will continue to operate until battery power is drained. At this point, the next open command, gate will remain **OPEN**. Gate will **automatically** close after AC power is restored if close timer is ON.

LEAVE CLOSED - After a power failure, gate will continue to operate until battery power is drained. At this point, gate will remain **CLOSED**.

OPEN 1 TIME - After a power failure, gate **automatically OPENS** and **REMAINS OPEN**. When power is restored, gate will **automatically** close.

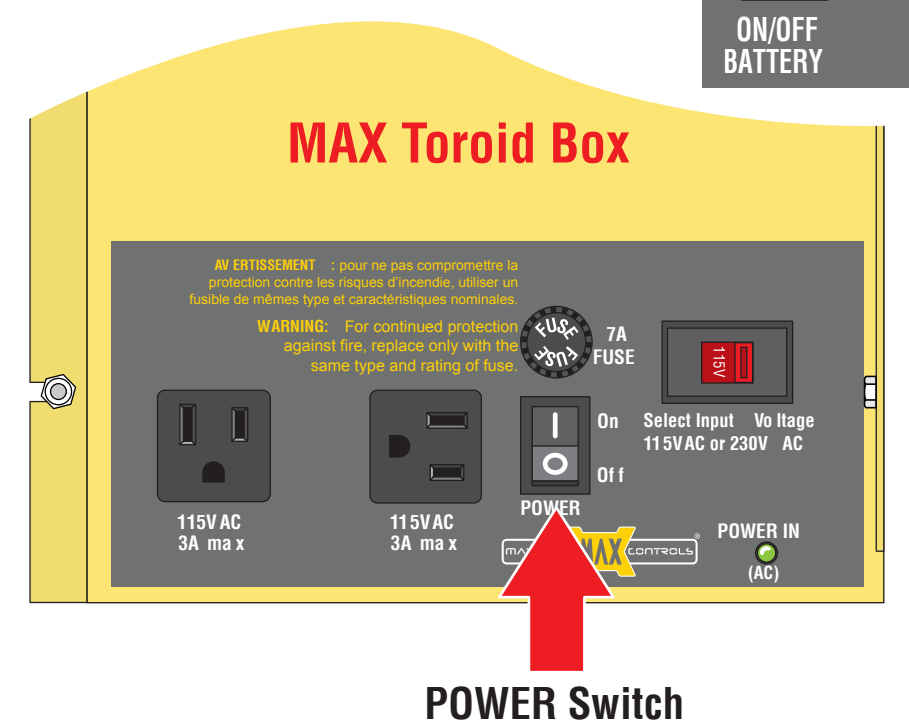
Close Timer

- 1st click clockwise - Knob at **MIN**: 1/2 sec...
- 2nd click clockwise: 1 sec...
- 3rd click: 4 sec...
- 4th click: 8 sec... etc up to 60 sec. **MAX LED turns ON for MAX setting ONLY**

Turn off ALL Power

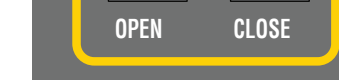
IMPORTANT: This procedure must be followed whenever **ALL** power must be turned **OFF** on operator.

- 1 Turn OFF **POWER** Switch on **MAX Toroid Box**. Battery power will **remain ON**.
- 2 Press and **HOLD** the **RED ON/OFF BATTERY** button until beep is heard, then release button.

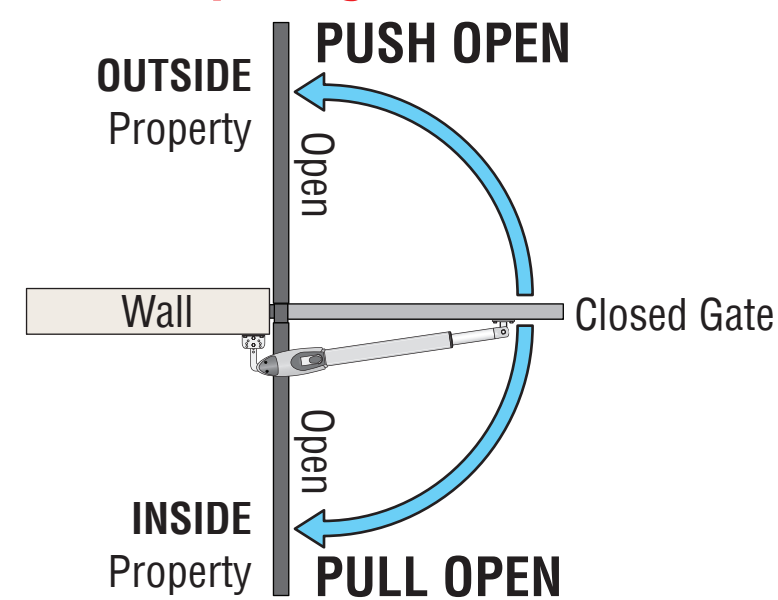


Jog Buttons

Push and **HOLD** to **Open** or **Close** (release button to stop gate). Helps when "Fine tuning" gate limit positions.



Gate Opening Direction



Operator Switch

SINGLE - Single operator installed (Motor 1).

DUAL - Dual operators installed (Motor 1 & Motor 2).

Maglock Delay

Turned OFF - **NO** Maglock installed.

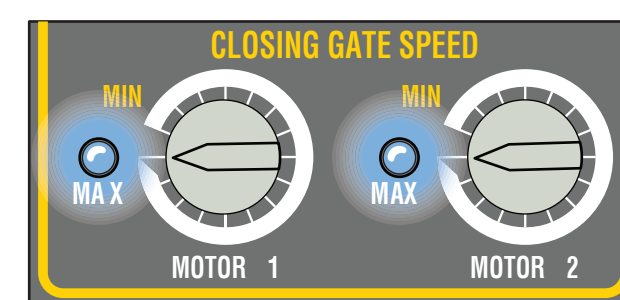
Set to 1.5 sec or 2.5 sec - You **MUST** select a time delay when using a maglock. Maglock power disengages 1.5 sec or 2.5 sec **before** gate starts opening.

Dual Gate Operators using Maglock: Primary gate opens **FIRST**. Install maglock accordingly to account for this.

MAGLOCK LED (Monitors Maglock):
ON - Locked
OFF - Unlocked
Flashing - Problem with Maglock Power.

Closing Gate Speed

After gate positions have been "Learned", the gate will cycle at the speed set on "CLOSING GATE SPEED" settings.



Typically set to MAX, LEDs ON.

UL 325 2018 Standard

Minimum of **ONE** Entrapment protection sensor **MUST** be installed or operator will **NOT** function. It **MUST** be **MONITORED** and **NORMALLY CLOSED (N.C.)/10K**. All entrapment zones should be protected by **MONITORED** sensors.

MONITORED UL sensors Input

A sensor wired to the **PHOTO CLS NC** will "AUTOMATICALLY" be **MONITORED** (Factory default). All other inputs **MUST** be learned before they will be monitored.

Sensor Learn Mode:

1. Press and **HOLD** the **STOP** button & then the **OPEN** button together until beeping is heard, learn mode begins. **DO NOT** press the **OPEN** button before the **STOP** button or learn mode will **NOT** begin (no beeping).

2. LEDs **WILL** turn **ON** for each detected "LEARNED" sensor that has been wired to the inputs. If a sensor's LED is **NOT** on, that sensor has a problem and it **MUST** be corrected before continuing.

- Photocells are out of alignment
 - Photocells are wired wrong - N.C. or N.O. depending on which photocells are used.
 - Sensor is bad
- When all LEDs are **ON** that should be **ON**, proceed to next step.

3. Press **STOP** button again within 5 min. to learn sensors and end learn mode, beeping stops. **Wired "Learned" Inputs will now be MONITORED.**

NOTE: If **STOP** button is not pressed within 5 min., learn mode terminates. If no "LEARNED" sensors are detected then factory default setting is restored (Inputs will **NOT** be Monitored).

