DSP Arm Controller Control Box SETTINGS Overview



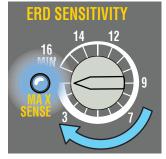
DIP-Switches

MODE B Switches	1	Open Relay Pulsed	OFF Open Relay ON when gate open		
			ON Open Relay Pulsed when gate open		
	0	Secondary	OFF Secondary moves same as primary		
	2	Opposite Direction O		ON Secondary moves opposite of primary	
	3	Look on Class	OFF Stop at close limit switch (see page 33)		
		Lock on Close	ON Stop on overload condition after seeing close limit switch		
	4 & 5	Select Gate Length	5-0FF 4-0FF		Gate < 7 FT
			5-OFF 4-ON 7 FT < Gate < 10 ft 5-ON 4-OFF 10 FT < Gate < 13 ft 5-ON 4-ON Gate > 13 FT Short Gate < 7 FT - shorter ramp down		
					10 FT < Gate < 13 ft
					Gate > 13 FT
					Long Gate > 10 FT - longer ramp down
			C	Choose Actuator	OFF I
	6	Type	ON	MAX A	rm REQUIRED SETTING
MODE A Switches	1				No beeping when ONLY battery power and gate is in motion.
		Battery Beep Mode Gate in Motion Alert			Beeping when ONLY battery power and gate is
					in motion.
					No alarm while gate in motion
					Alarm while gate in motion
		Strobe Light Relay Control			Tamper Relay NO/C Triggered while gate in motion
	3				for strobe light control.
	4	Quick-Close			No quick-close
	4	Quick-close		ON	Quick-close ON
	5	Close Tamper Detec	+		No Close Tamper Detect
		οιοσο ιαπιροί υστοστ			Trigger Tamper Relay (alarm for slider only)
	6	Stop Input Polarity			Stop Input NO-connect to GND to activate
					Stop Input NC-disconnect from GND to activate
	7	Open Relay Polarity			Open Relay CLOSED when gate is open
	•			_	Open relay OPEN when gate is open
	8	Solenoid Control Relay			For Maglock: Mag lock relay will trigger BEFORE closed limit is reached
				ON	For Solenoid: Mag lock relay will trigger AFTER
					closed limit is reached
	9	UL Closing Photo ON PHOTO CLS NC Anti-tailgate		OFF	UL Closing Photo anti-tailgate OFF
				ON	UL Closing Photo anti-tailgate ON
	10	Reserved		OFF	MUST be OFF
	10			ON	DO NOT turn ON

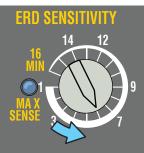
ERD Sensitivity Setting

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.

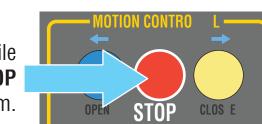


A. Turn knob until blue LED lights up. Maximum sensitivity reached, Position 1 - Too sensitive for most gates.



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)

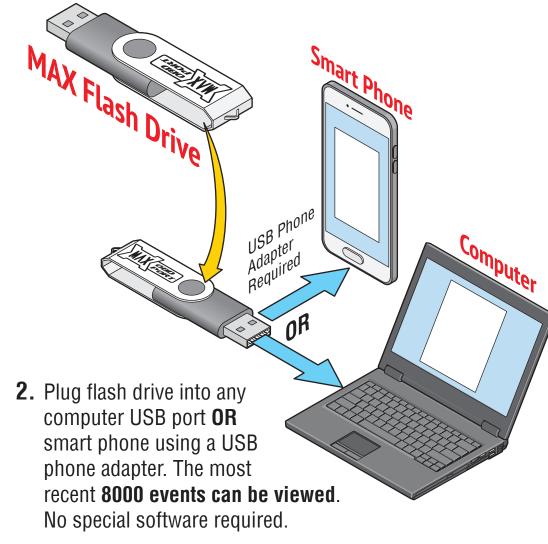
If alarm sounds while adjusting ERD, press **STOP BUTTON** to shut-off alarm.



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 **OBD 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).



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

To enter **PROGRAM** mode, **press and hold PROGRAM** button for 5 seconds. Follow instructions on-screen using the 4 buttons shown at left to program with. Press ONLY PROGRAM button again to end programming when finished.

PROGRAM INSTRUCTIONS ARE ON SCREEN

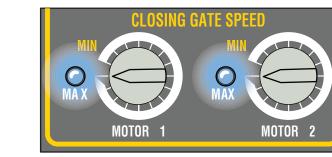
Back Up Down OPEN CLOSI

Programming Assistant Buttons

In PROGRAM mode, you can do the following:

- Scroll through most recent errors.
- View input voltage (DC voltage).
- View average current gate consumption. View cycle count.
- Program date and time.
- Turn on/off other advanced features.

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



BATTERY IN US E

Typically set to MAX, LEDs ON.

Battery Back-Up Mode

Jog Buttons

DSP ARM CONTROLLER

MVXIMUM WY (COULSOF)

MAXIMUM CONTROLS DSP ARM CONTROLLER

OFF ON

OFF ON

RADIO RADIO GN D MAX (GN D GN D GN D GN D

SINGLE - Single operator installed (Motor 1).

(Motor 1 & Motor 2).

SINGLE

/DC OUTPU T

Operator Switch —

DUAL - Dual operators installed

Closing Gate Speed

LIMIT 2

LIMIT 1

LIMIT 2

PHOTO CLS NC

OPEN / CLS NC 12VDC OU T

OOO OO CO GNDHOL

Turned OFF - NO Maglock installed.

a time delay when using a maglock.

Dual Gate Operators using Maglock:

MAGLOCK LED (Monitors Maglock):

Flashing - Problem with Maglock Power.

UL 325 2018 Standard

Minimum of **ONE** Entrapment protection

sensor MUST be installed or operator will

It MUST be MONITORED and NORMALLY

All entrapment zones should be

protected by MONITORED sensors.

sec **before** gate starts opening

accordingly to account for this.

Set to 1.5 sec or 2.5 sec - You MUST select

Maglock power disengages 1.5 sec or 2.5

Primary gate opens **FIRST**. Install maglock

STOP CLOS CLOS CO M GATE I TAMP GN D JOG C

Maglock Delay

ON - Locked

OFF - Unlocked

NOT function.

CLOSED (N.C.)/10K.

OPEN ONLY 10K

PHOTO CLS 10K OPEN / CLS 10K O 12VDC OU T

LIMIT 1 E

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

Push and HOLD to Open or Close

LIMIT 1

LIMIT 2 LIMIT 1

LIMIT 2

(release button to stop gate).

Helps when "Fine tuning" gate

limit positions.

PUSH OPEN

10

Maximum Controls LLC. 10530 Lawson River Ave Fountain Valley, Ca 92708 Tel: (949) 699-0220

-Close Timer

1st click clockwise - Knob at MIN: 1/2 sec... 2nd click clockwise: 1 sec...

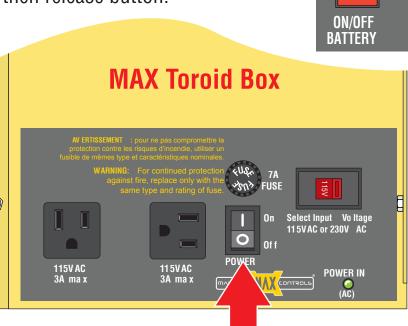
3rd click: 4 sec...

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.

- 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.



POWER Switch

-MONITORED UL sensors Input

Property PULL OPEN

Gate Opening Direction

Property

Wall

INSIDE

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).

Closed Gate

2. LEDs WILL turn ON for each detected "UNLEARNED" 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.

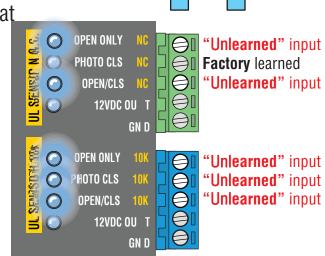
Possible problems:

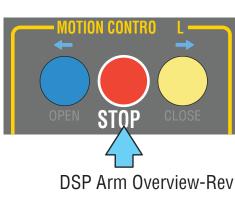
- Photocells are out of alignment
- Photocells are wired wrong N.C. or N.O. depending on which photocells are used.
- Sensor is bad

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 "Unlearned" Inputs will now be MONITORED.

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





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DSP Arm Overview-Rev 7

