2016 GATE OPENER UL325 Standard

FAQ – FREQUENTLY ASKED QUESTIONS) 1 of 2

1. How many entrapment devices does the new 2016 UL325 require?

A minimum of two entrapments protection devices are required for each entrapment zone.

2. What is an entrapment zone?

All Locations or point of contact where a person can become entrapped between a moving gate and a rigid object is considered an entrapment zone.

3. How many entrapment protection devices does the All-O-Matic gate operator require?

All-O-Matic gate operators are designed with an independent built-in entrapment protection (ERD) system. In addition, per UL325 guidelines at least one external monitored entrapment protection device shall be installed in every entrapment zone prior to gate operation.

4. What type of entrapment protection devices can you connect to the operator?

There are two types of devices, a Non-Contact sensor (photo eye) and a Contact Sensor (edge sensors).

5. Do All-O-Matic gate operators function without an external entrapment device?

No, the operator cycles power to the external entrapment protection device and checks for the device signal, if the operator does not receive the correct feedback from the device, the gate will not operate.

6. How do I identify the monitored entrapment protection device inputs on your AC board?

The AC board provides TWO especially designated inputs for the monitored entrapment protection devices:

MONITORED ENTRAPMENT DEVICE	ALL-O-MATIC AC CONTROL BOARD
Relay Common	Common
Normally Close Contact (N.C.)	MON_OPEN or MON_CLOSE INPUTS
Positive (+)	MON_24VDC
Common (-)	Common

NOTE: the MON-24VDC supply must be used instead of the 24VDC terminal to properly monitor entrapment devices.

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FAQ – FREQUENTLY ASKED QUESTIONS) 2 of 2

7. How do I connect my monitored entrapment protection devices to the All-O-Matic AC Board?

Monitored entrapment protection devices use Four wires to connect to the board.

MON_CLOSE	MON_OPEN
This input is only for the CLOSE direction. Hence, it does nothing in the opening direction.	This input is only for the OPEN direction. Hence, it does nothing in the closing direction
If a gate is closing and it senses an obstruction, the gate will reverse to the full open position resetting the auto closer timer.	If a gate is opening and it senses an obstruction, the gate will reverse for two seconds and stop. On power up, if a device is not detected the operator will assume one is not required for the opening direction.

8. Which photo eyes are compatible with the All-O-Matic PCB Boards?

Below you will find some of the UL325 listed photo eyes that are compatible with our boards. NOTE: Some photo eyes may have a "Light ON and Dark ON" switch.

ALLEN BRADLEY	AC BOARD	DC BOARD
Wire	**Contact**	**Contact**
BLACK	MON_CLOSE	MON_CLOSE
	MON_OPEN	MON_OPEN
ORANGE	COMMON	COMMON
BLUE		
BROWN	MON_24VDC	MON_12VDC

ENFORCER E.931.S33RRGQ	AC BOARD	DC BOARD
Contact	**Contact**	**Contact**
(3) N.C	MON_CLOSE	MON_CLOSE
	MON_OPEN	MON_OPEN
(5) COM	COMMON	COMMON
(1) NON POLARITY		
(2) 12-30VDC/AC 60 HZ	MON_24VDC	MON_12VDC

ENFORCER E.931.S50RRGQ		AC BOARD	DC BOARD
Switch	**Contact**	**Contact**	**Contact**
(3) N.C		MON_CLOSE	MON_CLOSE
		MON_OPEN	MON_OPEN
(5) COM		COMMON	COMMON
(1) NON POLARITY			
(2) 12-30VDC/AC 60 HZ		MON_24VDC	MON_12VDC

EMX IRB-RET		AC BOARD	DC BOARD
Switch	**Contact**	**Contact**	**Contact**
SW1-OFF	N.C	MON_CLOSE	MON_CLOSE
SW2-OFF		MON_OPEN	MON_OPEN
SW3-OFF	COM	COMMON	COMMON
SW4-ON	VRX		
	VRX	MON_24VDC	MON_12VDC

OMRON E3K-R10K4-NR		AC BOARD	DC BOARD
Switch	**Contact**	**Contact**	**Contact**
LIGHT ON	N.O.1	MON_CLOSE	MON_CLOSE
		MON_OPEN	MON_OPEN
	C1	COMMON	COMMON
	24 TO 240 VAC		
	24 TO 240 VAC	MON_24VDC	MON_12VDC

EMX IRB-MON		AC BOARD	DC BOARD
Switch	**Contact**	**Contact**	**Contact**
SW1-OFF	N.C	MON_CLOSE	MON_CLOSE
SW2-OFF		MON_OPEN	MON_OPEN
SW3-OFF	COM	COMMON	COMMON
SW4-ON	POWER INPUT		
	POWER INPUT	MON_24VDC	MON_12VDC