



Dear Viking Partners,

Since its founding, Viking has prided itself on developing innovative operators that exceed the expectations of installers. In continuation of this commitment, Viking has decided to use the 10K resistor based standard for monitored safety devices in order to be in compliance with the revised UL 325 standards. 10K resistor based solutions are the best solution for safety, reliability, simplicity, consistency, and servicing. This bulletin will further elaborate on the advantages of 10K resistor based devices and how the revised UL 325 standards will impact our partnership and your business.

There is much confusion in the market place regarding compliance with the new UL 325 revisions and this bulletin is meant to bring order to this chaos by clarifying the basics.

To begin, all Viking Access Systems gate operators have received Certificates of Compliance for the new UL 325 standards effective after 11 January 2016.

The UL 325 2016 revisions only impact Viking gate operators manufactured after 11 January 2016. For example, if you purchase a Viking operator in December of 2015 it will still be considered UL Listed if you sell it in March of 2016 even though that operator does not comply with the revised UL 325 2016 standards. There is no need to liquidate. There is no need for a fire sale. Your inventory is not going to be obsolete.

Per the new UL 325 revisions, Viking gate operators manufactured after 11 January 2016 must be installed with at least one **monitored safety device** to protect against entrapment. The operator will not function if a monitored safety device is not installed. Again, it is worth mentioning that if your Viking operator was manufactured on or before 11 January 2016 it will still be considered UL Listed and will operate without a monitored safety device.

Viking operators manufactured after 11 January 2016 will work with 10K resistor based photo beams and edge sensors.

We chose 10K resistor based devices for several important reasons:

Safety—10k resistor based devices are continuously monitored to ensure that the device(s) are working before, during, and after the gate cycle. Other technologies only check for proper safety device functionality during the first ½ second of the gate's cycle.

Reliability—other technologies disable gate operation if the correct signal is not received within the first ½ second of operation. We were not comfortable using a technology that could disable our operators for a ½ second delay that could be caused by something as simple as a low-grade surge. We chose 10K resistor based devices precisely because we don't want Viking operators to be knocked-off line due to a ½ second hiccup.

Simplicity—there is no need for additional inputs or expansion boards when using 10K based devices. Viking can monitor up to four 10K resistor based monitored safety devices wired in parallel and connected to a single UL input. Other technologies require a separate input for each monitored safety device. For example, if you want to deploy four devices using NC or Pulse, then you need to have four available inputs on your control board. This means you'll need to learn how to program a new control board or buy an expansion board when using NC or Pulse technologies.

Consistency—Viking's decision to use 10K based technology means you will not have to learn how to set-up a new board or use expansion boards. You will set-up Viking UL 325 2016 compliant operators in the same way you've set-up every Viking operator with our VFlex board. Initializing the monitored safety devices literally requires the push of a button.

Servicing—you can test any 10K resistor based monitored safety device installed on Viking operators with a multimeter at any time. NC requires you to make readings within the first ½ second of a gate's cycle. Pulse/Frequency devices cannot be tested with a multimeter and will require you to carry additional electronic equipment and a specialized board to troubleshoot the device.

Furthermore, we field questions about compliance with the revised UL 325 standards several times a day and want to share a quick FAQ about non-compliance.

- Do NOT install any other 10K resistor based devices besides the Miller Edge devices listed below. The operator will function, but it WILL NOT be UL compliant
- Do NOT install (1) 10K resistor based device and other non-10K devices in parallel on the UL input. The operator and devices will function, but it WILL NOT be UL compliant

Viking Access System gate operators have been tested by Underwriters Laboratories for use with the following 10K resistor based Miller Edge monitored safety devices:

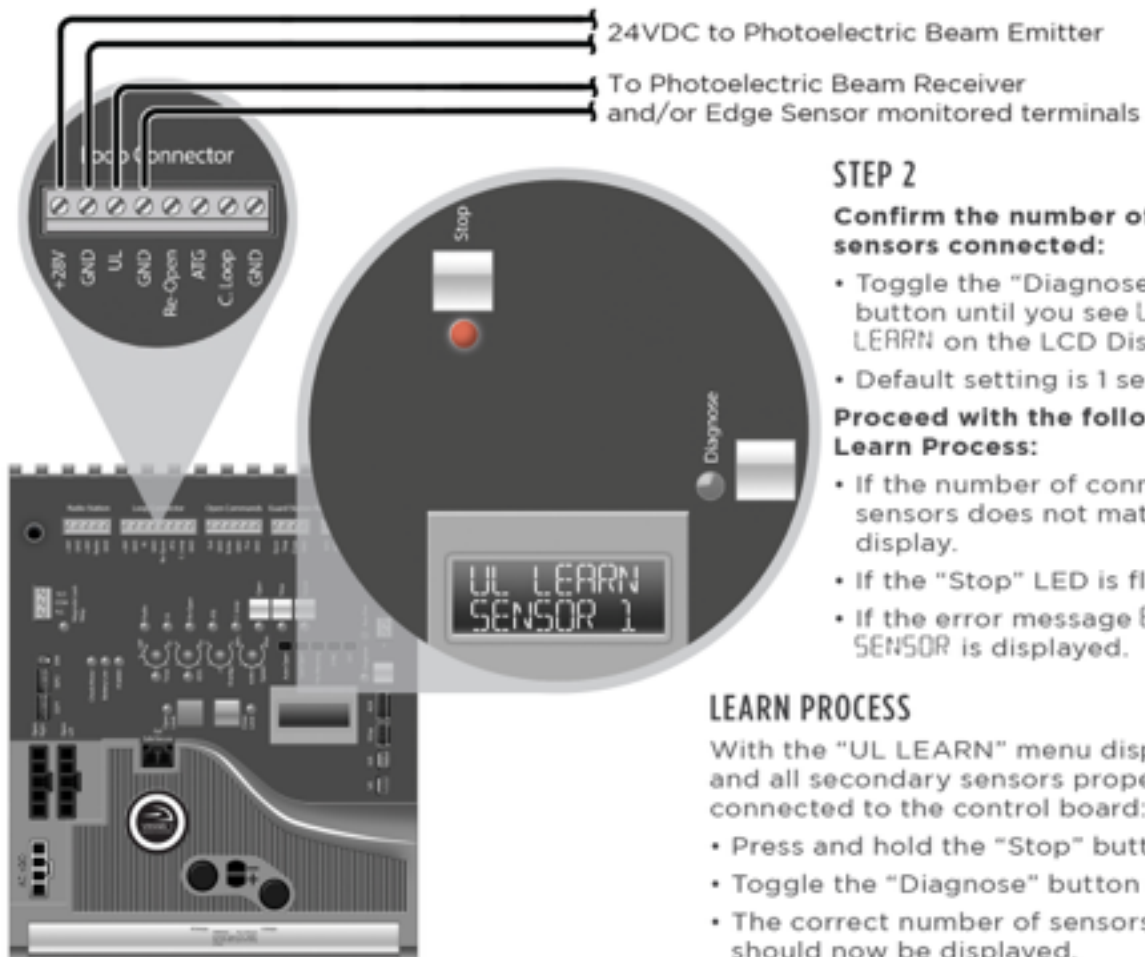
- **Photo Beam**
 - **Miller Edge IG2**
- **Edge Sensors**
 - **ME110** ○ **ME111** ○ **ME112** ○ **ME113** ○
 - **ME115** ○ **ME116** ○ **ME117** ○ **ME120** ○

We will continue to provide you with more information as it becomes available. If you have any questions please don't hesitate to contact us at 800-908-0884 or sales@vikingaccess.com.

Secondary Entrapment Protection Installation

STEP 1

Connect the secondary entrapment protection sensor(s) to the Viking control board as illustrated. Up to four 10K resistor based sensors can be wired in parallel.



STEP 2

Confirm the number of sensors connected:

- Toggle the "Diagnose" button until you see UL LEARN on the LCD Display.
- Default setting is 1 sensor.

Proceed with the following Learn Process:

- If the number of connected sensors does not match the display.
- If the "Stop" LED is flashing.
- If the error message ERR UL SENSOR is displayed.

LEARN PROCESS

With the "UL LEARN" menu displayed and all secondary sensors properly connected to the control board:

- Press and hold the "Stop" button.
- Toggle the "Diagnose" button once.
- The correct number of sensors should now be displayed.