APPLICATION NOTE

ULTI-SYNC CROSSTALK

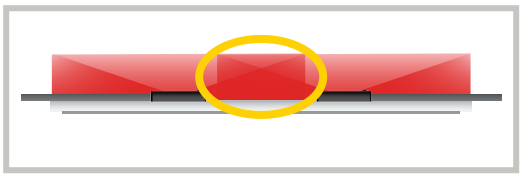
The purpose of this Application Note is to instruct the installer on proper programming during ULTIMO installations with adjacent IR sensors to minimize the occurrence of false detections occuring from crosstalk.

The scope of this procedure is limited to applications involving ULTIMO + non-ULTIMO installations.

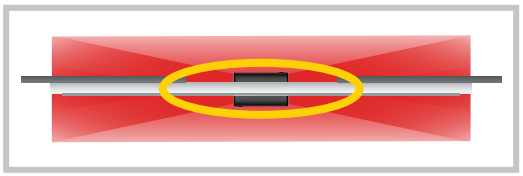
BACKGROUND

When a non-ULTIMO sensor's safety field overlaps an ULTIMO safety field, there can be issues with crosstalk that can cause false detections.

This can occur when the sensors are mounted side-by-side or back-to-back.



side-by-side



back-to-back

INSTRUCTIONS

To eliminate the false detections, BEA recommends replacing the non-BEA sensor with an ULTIMO.

If unable to do so, you can reduce the occurrence of false detections using the following instructions:

1. Verify the type of adjacent IR sensor installed - new IXIO (software version ≥ 5.0), older IXIO (software version < 5.0), or competitor.
2. If the adjacent IR sensor is an IXIO, determine if the IXIO AIR Frequency setting is A or B.
3. With the information gathered from steps 1 and 2, check the following table to determine which ULTIMO IR Frequency setting that should be used to avoid crosstalk.

SENSOR CONFIGURATION	ADJACENT SENSOR FREQUENCY SETTING	ULTIMO FREQUENCY SETTING
ULTIMO + newer IXIO	A	**3**
ULTIMO + newer IXIO	B	**4**
ULTIMO + older IXIO	A	**6**
ULTIMO + older IXIO	B	**7**
ULTIMO + other	unknown	**3 / 4 ***

* When an ULTIMO is installed with a competitor sensor, set the ULTIMO IR Frequency to 3.
If experiencing false detections, adjust the ULTIMO IR Frequency to setting 4.

Refer to the IXIO Family User's Guide (75.5960) for checking the software version and Frequency setting.

BEA, INC. INSTALLATION/SERVICE COMPLIANCE EXPECTATIONS

BEA, Inc., the sensor manufacturer, cannot be held responsible for incorrect installations or incorrect adjustments of the sensor/device; therefore, BEA, Inc. does not guarantee any use of the sensor/device outside of its intended purpose.

BEA, Inc. strongly recommends that installation and service technicians be AAADM-certified for pedestrian doors, IDA-certified for doors/gates, and factory-trained for the type of door/gate system.

Installers and service personnel are responsible for executing a risk assessment following each installation/service performed, ensuring that the sensor/device system performance is compliant with local, national, and international regulations, codes, and standards.

Once installation or service work is complete, a safety inspection of the door/gate shall be performed per the door/gate manufacturer's recommendations and/or per AAADM/ANSI/DASMA guidelines (where applicable) for best industry practices. Safety inspections must be performed during each service call – examples of these safety inspections can be found on an AAADM safety information label (e.g. ANSI/DASMA 102, ANSI/DASMA 107, UL294, UL325, and International Building Code).

Verify that all appropriate industry signage, warning labels, and placards are in place.