

**Dual Photoelectric Beam Detector** 

## **Operational Checklist**

This Pre-Installation Checklist is designed to help guide and assure the installation of the Optex PE beams to correctly setup and align properly. This guide will also verify the proper dip-switch setting (e.g. Low Battery, Channel Frequency, Beam Interruption etc.)

If after all steps have been conducted properly and operation has not been achieved, please contact our technical support team for further assistance at 1-800-966-7839

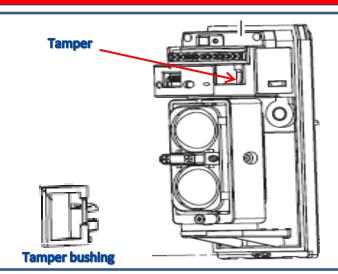
### Note: This is not a substitute for the installation manual

#### STEP 1.

Apply power to the beams using the LSH20 lithium batteries provided.

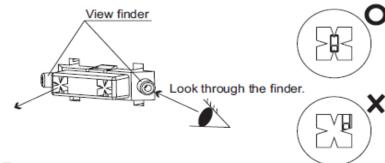
Be sure the tamper switch is in the open state. This enables the alignment mode.

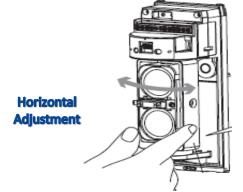
Do not insert the tamper bushing until all steps are finished.



#### STEP 2. Visual alignment

This step allows the beams to look in the correct direction.





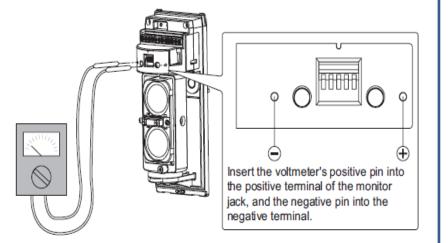


#### STEP 3.

Fine tuning the beam requires a digital multimeter (DMM) and is conducted at the receiver.

Insert the DMM probes into the the receiver's monitor jack (MJ).

Set the DMM to DC volts at a range of 2~10VDC



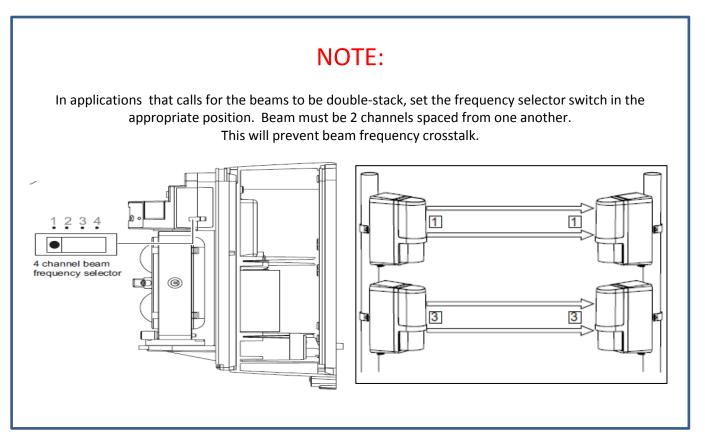
If your DMM has a reading lower than 2.5VDC. Leave the DMM connected and follow step 2 again.

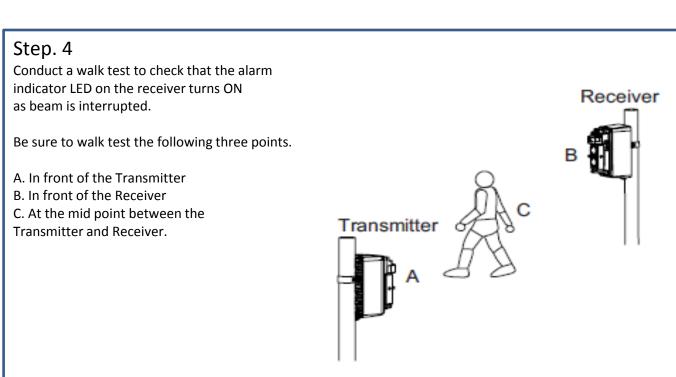
As you make the adjustments watch the DMM to see if the voltage increases or decreases. If it decreases turn or rotate the beam the opposite direction. You should be able to reach 3VDC.

Alarm indicator LED	Light interrupted	Light received					
	ON (Red)	Fast flicker	Slow flicker		OFF		
		· .	••		$\bigcirc$		
Adjustment level	Realign			Fair	Good	Excellent	
Monitor jack output	0	V	> 1	1.0V > 2.0	0V > 2.	5V >	

# **CAUTION**

The alarm indicator LED is a supporting tool for easy alignment. Be sure to perform the fine alignment to ensure maximum output level through the monitor jack.





After Optical Alignment has been completed make sure to double check the Dip-Switch settings to fit the needs for your application.

Refer to the installation manual for better understanding of each setting.

#### Receiver:



- 1,2: Beam interruption adjustment switch
- 3: Battery saving timer switch
- 4: Intermittent output function switch
- 5: N.C./N.O. selection switch

#### Transmitter:



- 1: Battery saving timer switch
- 2: Intermittent output function switch
- 3: N.C./N.O. selection switch

To conserve battery life , place the tamper bushing inside beam tamper. This disables alignment mode and turns off LED indicators.

After completing the settings and operation check, insert the tamper bushing into each transmitter/receiver.

