

# Near IR Remote Sensor - Installation Instructions

Models NL.EX.D1.B, NL.EX.D3.B

**Please read all instructions prior to installation and keep for future reference!**

All installations must be executed in accordance with local codes. The installing contractor assumes all liability for the safety and code compliance of the installation. Optic Arts is not liable for any damages caused by improper wiring, circuit overloading, power surges, poor system design or layout, negligence or other conditions.

**CAUTION: TO PREVENT THE RISK OF FIRE, DO NOT INSTALL CLOSER THAN 3 INCHES TO CABINET WALL OR IN A COMPARTMENT SMALLER THAN 12" BY 12".**



7777 Merrimac Ave  
Niles, IL 60714  
T 224.333.6033  
F 224.757.7557  
info@luminii.com  
www.luminii.com

PLENUM FOR SUCH USE IN ACCORDANCE WITH UL2043

REVO.1  
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## Built-In Motion Sensor Installation

**1**

Power Supply (with Barrel Quick Connect)

**\*EXAMPLE OF FINISHED WIRED CLOSET**

NL.EX.D1.B  
Near IR Remote Switch, 1 IR Sensor

NL.EX.D3.B  
Near IR Remote Switch, 3 IR Sensors

- 1.1 Locate a mounting surface for the External Sensor Unit and driver.
- 1.2 Install onto surface

Note: NL.EX.D3.B (3 sensor) does not have integral mounting holes. Double sided tape, velcro tape, or the like, will be needed to secure to mounting surface.

**2**

- 2.1 Specify location of sensor and drill a wiring hole between 0.49" and 0.64" in diameter
- 2.2 Drill a secondary 0.64" diameter hole at least 0.69" deep to accommodate sensor body.
- 2.3 Feed wire lead through hole and press sensor in.
- 2.4 Repeat for each sensor.

0.05" (1.27mm)

Ø 0.59" (15.10mm)

Ø 0.55" (13.90mm)

0.49" (12.50mm)

Ø 0.38" (9.75mm)

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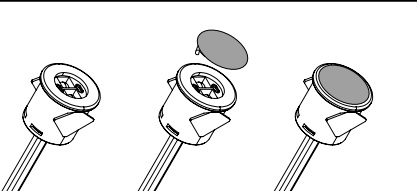
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## 3

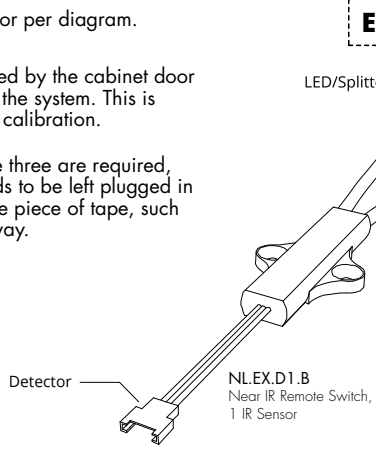
3.1 Attach all wire leads to sensor per diagram.

3.2 Ensure all sensors are covered by the cabinet door or similar prior to power on the system. This is necessary for proper sensor calibration.

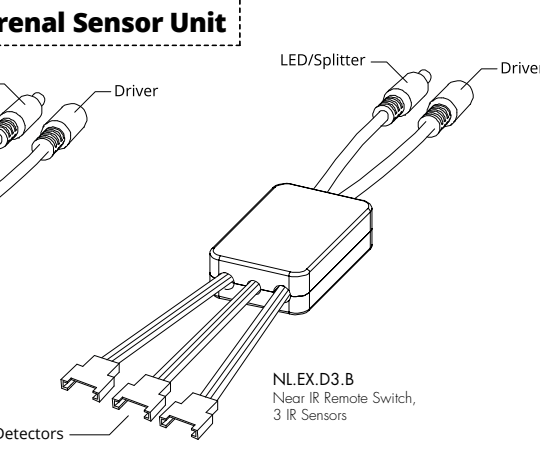
**Note:** If only two sensors out of the three are required, the third unused sensor needs to be left plugged in and covered with an opaque piece of tape, such as duct tape, and tucked away.



**Extrenal Sensor Unit**



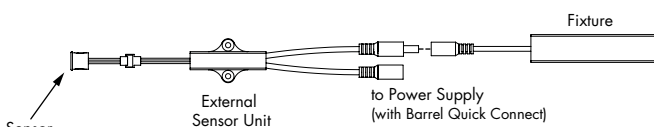
NL.EX.D1.B  
Near IR Remote Switch,  
1 IR Sensor



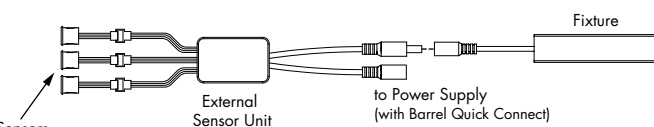
NL.EX.D3.B  
Near IR Remote Switch,  
3 IR Sensors

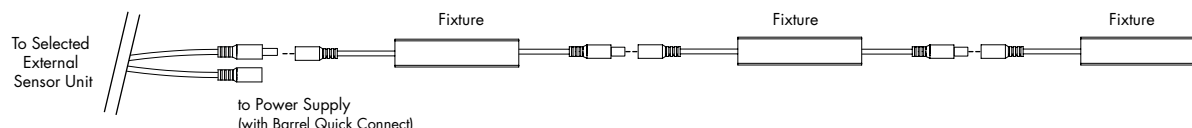
### WIRING DIAGRAM (EXTERNAL MOTION SENSOR)

NL.EX.D1.B  
Near IR Remote Switch, 1 IR Sensor



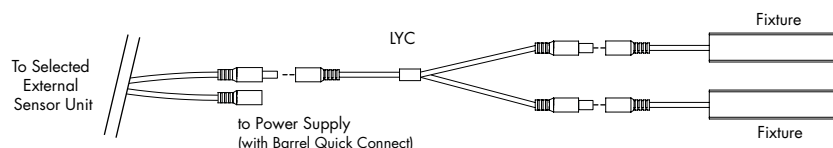
NL.EX.D3.B  
Near IR Remote Switch, 3 IR Sensors





To Selected External Sensor Unit

to Power Supply (with Barrel Quick Connect)



To Selected External Sensor Unit

LYC

to Power Supply (with Barrel Quick Connect)

## 4

**Door Mode:** To test system functionality, open door to check if the fixture(s) will turn on. If closet has more than one door, open each door individually to check if each sensor is working correctly. When doors are open, the fixture will automatically turn on. If all doors are closed, the fixture will automatically turn off.

