

SMARTLINX

SLX-RADAR

INSTALLATION INSTRUCTIONS

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1. IMPORTANT SAFETY PRECAUTIONS



DANGER: Read and understand all instructions! Failure to follow all instructions listed below may result in electric shock, fire and/or serious personal injury. Only qualified, properly trained personnel should perform these procedures. **SAVE THESE INSTRUCTIONS**

- This device can control certain types of luminaire models/styles, and ballasted loads with a specific radio integrated to it in some manner or form.
- **WARNING: DISCONNECT POWER BEFORE SERVICING. THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE SPECIFIC INSTALLATION INSTRUCTIONS TO THE APPLICABLE INSTALLATION CODE BY A QUALIFIED PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED.**
- **NO ORIGINAL PARTS ARE ALLOWED TO BE SUBSTITUTED.** Changes or modifications to this device, not expressly approved by the manufacturer, could void the user's authority to operate the equipment and will void the equipment's warranty.
- This device must be inserted into an appropriate locking photocell receptacle that provides protection from accidental contact with the live "blade" terminals. This device does not rely on the luminaire to prevent accidental exposure to live voltages within the device.
- This equipment complies with FCC/IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body. Cet équipement est conforme aux limites d'exposition aux radiations IC CNR-102 établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 20cm entre le radiateur et votre corps.
- Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device complies with part 15 of the FCC Rules and Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) L'appareil ne doit pas produire de brouillage;
- (2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

For LTE-M Module:

Contains FCC ID: N7NHL78

Contains IC: 2417C-HL78

For Model B870-RD:

FCC ID: 2ACR3-B870RD

IC: 12047A-B870RD

2. GENERAL DEVICE INFORMATION

The SLX-RADAR Sensor detects vehicle speed and allows for the control and monitoring of streetlights.

2.1 SLX- RADAR SPECIFICATIONS

VOLTAGE INPUT RANGE	120-480 VAC 60Hz (UL773 Rating-B870) 220-240 VAC 50/60Hz (CE Safety-B671)	
CONTROLLED LUMINAIRE CURRENT RANGE	0 – 6 A electronic (ELC) and incandescent (IND) loads 0 – 10 A inductive (IND) loads	
POWER CONSUMPTION	< 2W Avg @120V	
OPERATING TEMPERATURE RANGE	-40°C to + 60°C	- 40°F to + 140°F
DIMENSIONS	~ 21 cm (h) x 5 cm to 9 cm (Ø)	~ 8.2" (h) x 2" to 3.5" (Ø)
WEIGHT	~ 0.45 kg	~ 1 lbs

2.2 TERMINAL CONNECTIONS

The control interface is isolated from the mains input by basic insulation. Connection of the auxiliary lines is optional.

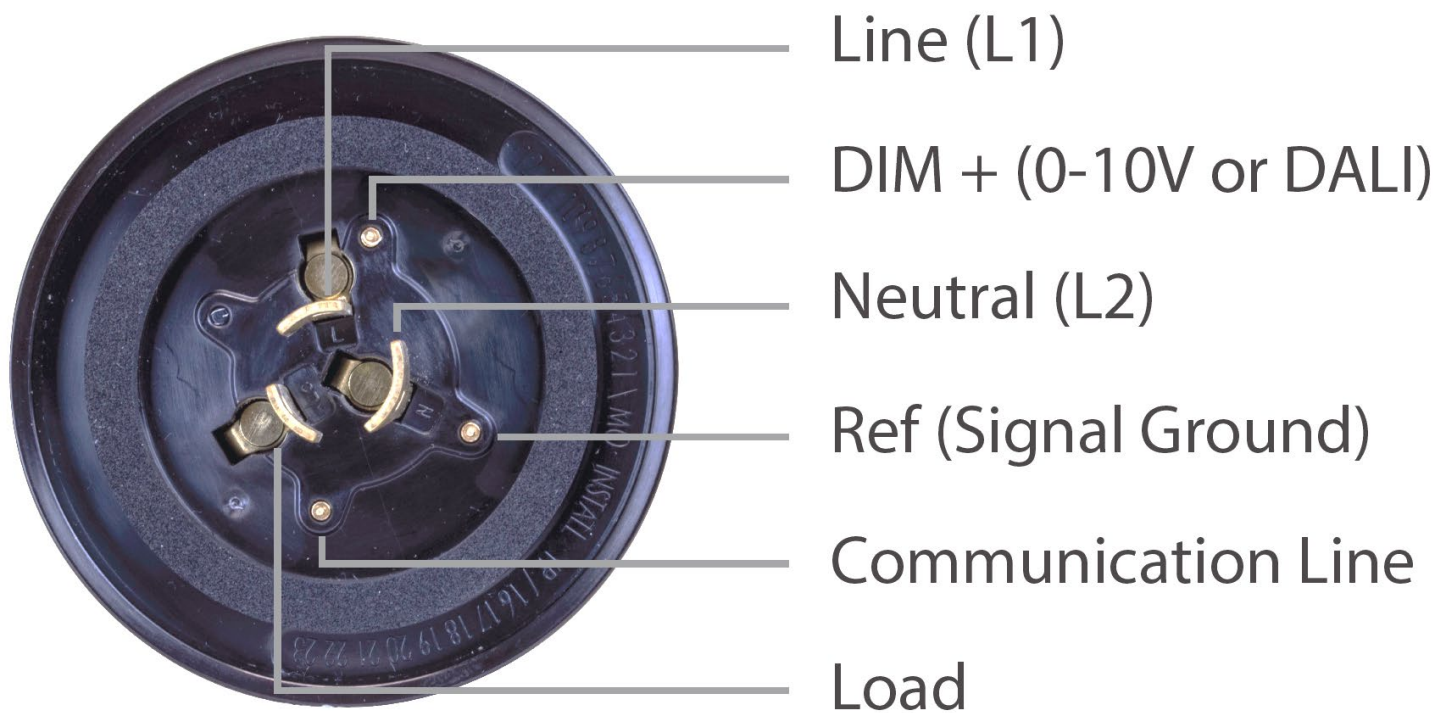
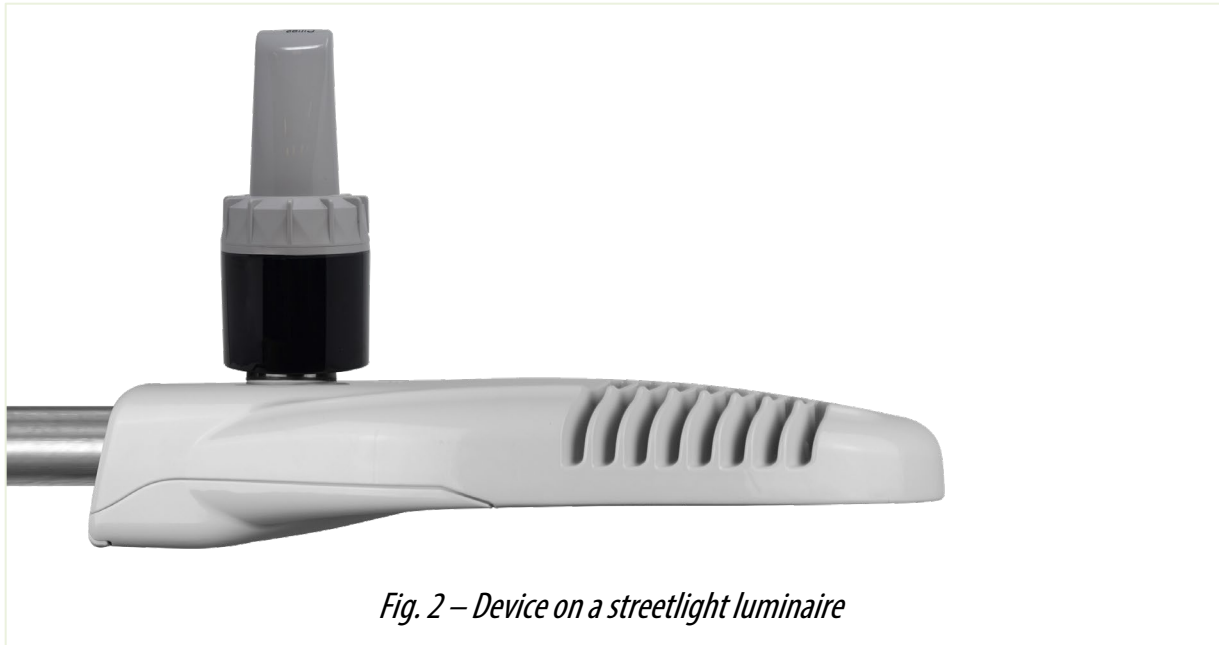


Fig. 1 – Device terminal connections

3. DEVICE INSTALLATION INFORMATION

Follow steps carefully to successfully make the device operate on the luminaire and collect sensor data!



3.1 Controller Instructions

DANGER: Disconnect electrical power to the luminaire during installation. Protect the device's metallic contacts from damage, contaminants, etc. by inspecting the interface area before inserting the device.

The device is intended to be installed on a streetlight luminaire with an ANSI C136.41 compliant 3, 5, or 7 pin photocell socket or receptacle. The device produces either a 0-10VDC or DALI dimming signal on the auxiliary lines connected to a 5 or 7 pin receptacle. The streetlight luminaire must be wired correctly and appropriately to be able to accept one of the stated dimming signals.

Insert the device into the receptacle by pushing it down and then rotating it 1/8-turn clockwise to lock.



Fig. 3 – Device requires ANSI C136.41 receptacle

3.2 Sensor Instructions



NOTE: Use your free-hand to hold and prevent the controller base from turning when twisting or turning the locking-ring. This will help prevent the device's AC-Blades and Aux-Pins from getting damaged. Read and review all steps carefully before installation to be fully prepared.

- (1) To remove & replace the protective cap (if present), release the locking-ring by twisting it counter-clockwise.
- (2) Once the protective-cap (if present) has been replaced with the sensor module, place back the locking-ring loose. This will allow you to freely spin the sensor module on top of the controller base.

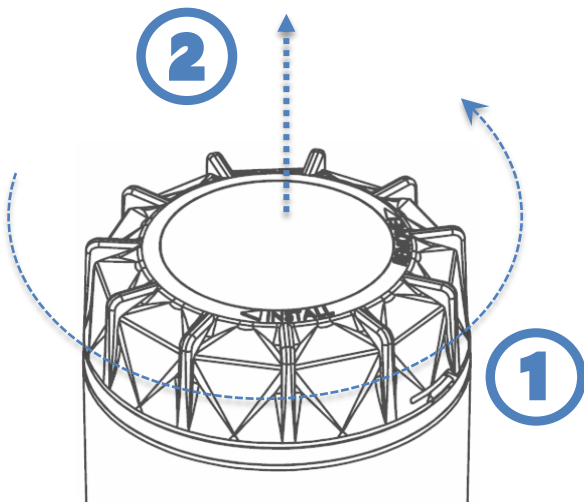


Fig. 4 – Remove protective cap

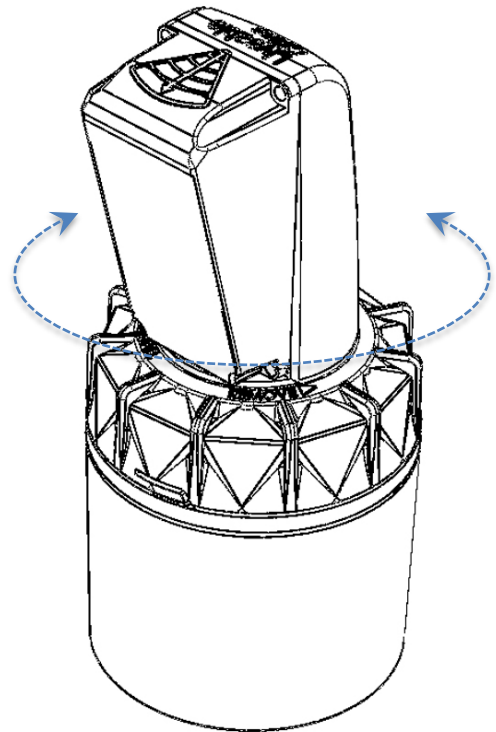


Fig. 5 – Spin sensor module

- (3) Spin the sensor module and then aim the “Arrow” to the road as shown in Fig. 5 or Fig. 6 to maximize the detection area and increase sensor accuracy. Contact the manufacturer for site selection best practices.

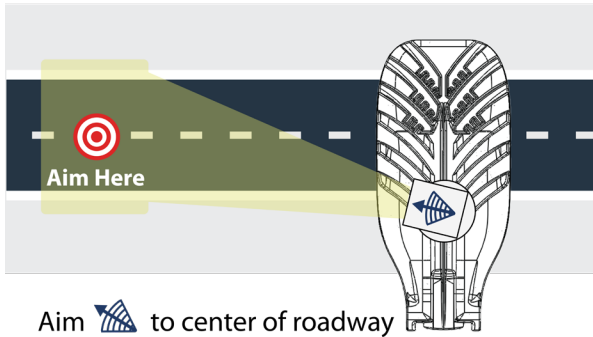


Fig. 5 – Standard Aiming

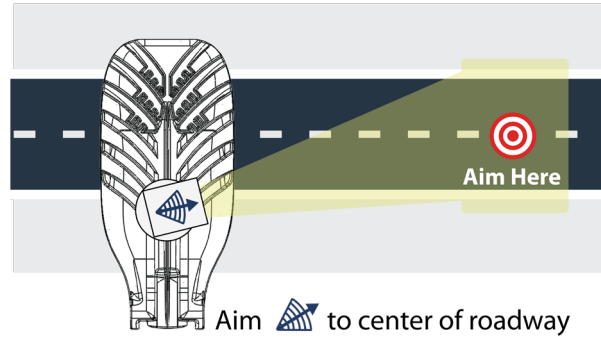


Fig. 6 – Optional Aiming

- (4) Tighten back the locking-ring by using your free-hand to hold and prevent the controller base from turning while using your other hand to re-twist the locking-ring to the sealed position  to maintain IP66 rating. Holding the controller base will ensure no damage occurs to device's AC-Blades and Aux-Pins when applying force.
- (5) If you are having trouble tightening or loosening the locking-ring, try using the 'Just in case' wrench that comes with the device. Use your free-hand to hold and prevent the controller base from turning while torquing the locking-ring on the sensor module using the wrench. This will ensure no damage occurs to the device's AC-Blades and Aux-Pins when applying force.

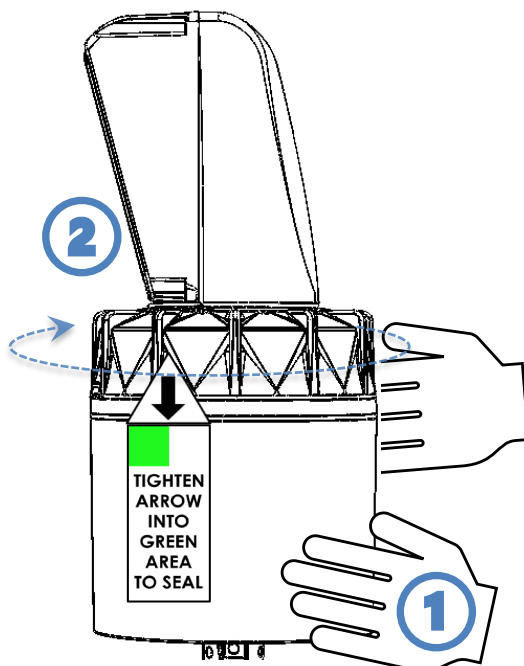


Fig. 7 – Tighten locking-ring to sealed



Fig. 8 – 'Just in case' wrench

AIMING INSTRUCTIONS

