



rLSXR Sensor

Fixture Mount Motion Sensor

360° COVERAGE • LINE VOLTAGE • INTERCHANGEABLE LENSES



Note: Sensor may appear different from above photo depending on selected lens type.

SPECIFICATIONS (rLSXR)

Electrical Specifications

- Input Ratings** rLSXR 120-277VAC, 50/60 Hz 2.5W
rLSXR HVOLT 347-480VAC, 50/60 Hz 2.5W
- Maximum Load** 450 W @ 120-277
720 W @ 347-480
- Dimming Load** Sinks <10mA (0-10 VDC LED Drivers/Ballasts)
- Minimum Load** None
- Class Rating** 0-10V Dimming can be wired Class 1 or 2

Mechanical

- Mounting** 1/2" Knockout (7/8" hole)
- Mounting Height** rLSXR 10: 7 to 15 ft (2.13 to 4.57 m)
rLSXR 6: 15-45 ft (4.57-13.72m)
rLSXR 9: 8-15 ft (2.44-4.57m)
rLSXR 50: 40 ft (12.19m)
- Connection Type** Line and Low Voltage Leads

Environmental

- Warrantied Operating Temperature** -40° to 149° F (-40° to 65° C)
- Standards/ Ratings** RoHS, UL 916, UL 924 (optional), FCC / IC / IFETEL

IMPORTANT SAFEGUARDS
WHEN USING ELECTRICAL EQUIPMENT, BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE FOLLOWED INCLUDING THE FOLLOWING:

- **DO NOT USE OUTDOORS.**
- DO NOT MOUNT NEAR GAS OR ELECTRIC HEATERS.
- EQUIPMENT SHOULD BE MOUNTED IN LOCATIONS AND AT HEIGHTS WHERE IT WILL NOT READILY BE SUBJECTED TO TAMPERING BY UNAUTHORIZED PERSONNEL.
- THE USE OF ACCESSORY EQUIPMENT NOT RECOMMENDED BY THE MANUFACTURER MAY CAUSE AN UNSAFE CONDITION.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with 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 interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device."

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.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

READ AND FOLLOW ALL SAFETY INSTRUCTIONS! SAVE THESE INSTRUCTIONS AND DELIVER TO OWNER AFTER INSTALLATION



Expanding the boundaries of lighting™



TITLE 20/24

WARRANTY

5-year limited warranty.

Full warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

NOTE: Specifications subject to change without notice.

Actual performance may differ as a result of end-user environment and application.

- To reduce the risk of death, personal injury or property damage from fire, electric shock, falling parts, cuts/abrasions, and other hazards please read all warnings and instructions included with and on the fixture box and all fixture labels.
- Before installing, servicing, or performing routine maintenance upon this equipment, follow these general precautions.
- Installation and service should be performed by a qualified licensed electrician.
- Maintenance should be performed by qualified person(s) familiar with the products' construction & operation & any hazards involved. Regular maintenance programs recommended.
- To be installed to a circuit with overvoltage control to Overvoltage category Cat.III or less, minimum suppression rating 6.0 kV for a 600 V ac rms system voltage
- **DO NOT INSTALL DAMAGED PRODUCT!** This product has been properly packed so that no parts should have been damaged during transit. Inspect to confirm. Any part damaged or broken during or after assembly should be replaced.

CAUTION: RISK OF PRODUCT DAMAGE

- ✓ Electrostatic Discharge (ESD): ESD can damage product(s). Personal grounding equipment should be worn during all installation or servicing of the unit.
- ✓ Do not touch individual electrical components, as this can cause ESD and affect product performance.
- ✓ Do not stretch or use cable sets that are too short or are of insufficient length.
- ✓ Do not tamper with contacts.
- ✓ Do not modify the product.
- ✓ Do not change or alter internal wiring or installation circuitry.
- ✓ Do not use product for anything other than its intended use.

WARNING - RISK OF ELECTRIC SHOCK

- ✓ Disconnect or turn off power before installation or servicing.
- ✓ Verify that supply voltage is correct by comparing it with the product information.
- ✓ Make all electrical and grounded connections in accordance with the National Electrical Code (NEC) and any applicable local code requirements.
- ✓ All wiring connections should be capped with UL approved recognized wire connectors.
- ✓ All unused connector openings must be capped.

WARNING - RISK OF BURN or FIRE

- ✓ Do not exceed maximum wattage, ratings, or published operation conditions of product.
- ✓ Do not overload.
- ✓ Follow all manufacturer's warnings, recommendations and restrictions to ensure proper operation of product.

CAUTION - RISK OF INJURY

- ✓ Wear gloves and safety glasses at all times when installing, servicing or performing maintenance.



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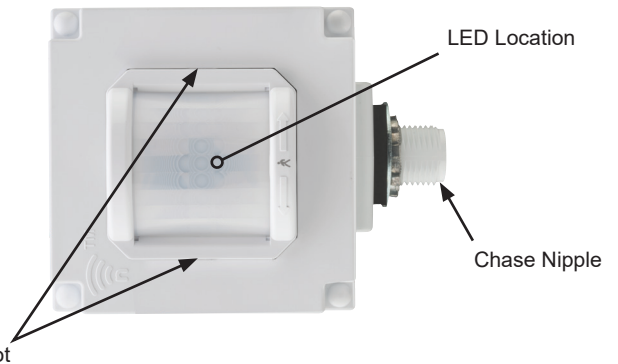
Note: Sensor may appear different from above photo depending on selected lens type.

BASE MODELS

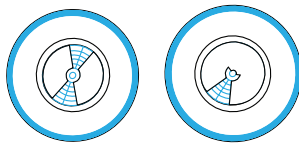
- **rLSXR 6:** On/Off/Dim, Photocell, Passive Infrared (PIR) - High Mount 360° Coverage
- **rLSXR 10:** On/Off/Dim, Photocell, Passive Infrared (PIR) - Low Mount 360° Coverage
- **rLSXR 9:** On/Off/Dim, Photocell, Passive Infrared (PIR) - Small Motion 360° Coverage
- **rLSXR 50:** On/Off/Dim, Photocell, Passive Infrared (PIR) - High Mount Aisleway Coverage
- **rLSXR 6 HVOLT:** On/Off/Dim, Photocell, Passive Infrared (PIR), 347-480 VAC - High Mount 360° Coverage
- **rLSXR 10 HVOLT:** On/Off/Dim, Photocell, Passive Infrared (PIR), 347-480 VAC - Low Mount 360° Coverage
- **rLSXR 9 HVOLT:** On/Off/Dim, Photocell, Passive Infrared (PIR), 347-480 VAC - Small Motion 360° Coverage
- **rLSXR50 HVOLT:** On/Off/Dim, Photocell, Passive Infrared (PIR), 347-480 VAC - High Mount Aisleway Coverage

INSTALLATION INSTRUCTIONS

- Field or factory installable for indoor applications
- Sensor has a 1/2" chase nipple that enables mounting through a knockout/hole in a junction box, fixture, or pole.
- To mount, push the unit's threaded chase nipple through a 1/2" knockout (7/8" hole) in a fixture.
- When mounting to a pole, a 7/8" unthreaded hole should be located 12" below luminaire and should be accessible via an adjacent or opposite side hand hole.
- A snap lock mechanism on the chase nipple will secure the sensor.



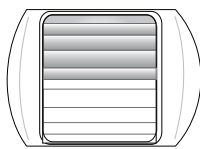
HIGH MOUNT 360° MASKING KIT



Center-of-Aisle

End-of-Aisle

HIGH MOUNT AISLEWAY MASKING KIT



End-of-Aisle

- Masking labels are included with the high bay 360° lens to mask off a portion of its coverage pattern for end-of-aisle, or to trim the side viewing to create a rectangular pattern for center-of-aisle.
- Masking labels are included with the high bay aisle way lens to mask off a portion of its coverage pattern for end-of-aisle applications.

REMOVING LENS



- To interchange lenses, pry out installed lens using a small flat screw driver inserted into one of the slots shown below
- Apply light pressure on lens frame sides to snap in new lens.
- Install lens with the most optimum coverage pattern for a particular space and application

OUT OF BOX OPERATION

- **Occupancy Control:** Enabled
- **Occupied Dim Level:** 100%
- **Unoccupied Time Until Dim:** 7.5 Minutes
- **Unoccupied Dim Level:** 10%
- **Dim to Off Time Delay:** 2.5 Minutes
- **Daylighting Control:** Enabled
- **Daylighting Set Point:** 50 fc
- **Daylighting Transition On Time:** 45 Seconds
- **Daylighting Transition Off Time:** 5 Minutes



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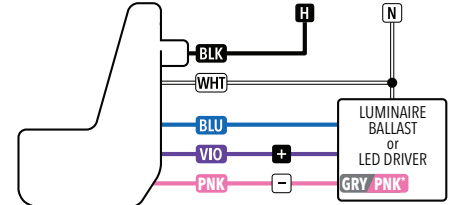


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WIRING (DO NOT WIRE HOT)

WIRING TO SINGLE PHASE POWER (120/277/347 VAC)

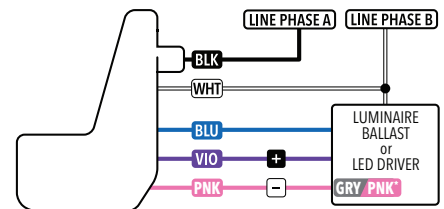
- BLACK** - 120/277/347 VAC Input
- BLUE** - Switched Line Voltage Output to Luminaire
- WHITE** - Neutral
- VIOLET** - Low Voltage Dim Output (0-10 VDC)
- PINK** - Low Voltage Common (0-10 VDC)



*0-10V Dimming Common from luminaire may be pink or as otherwise indicated per section 410.69 of the 2020 NEC

WIRING TO 2-PHASE POWER* (208/240/480 VAC**)

- BLACK** - 208/240/480 VAC Phase A Input
- BLUE** - Switched Line Voltage Output to Luminaire
- WHITE** - Phase B of 208/240/480 VAC Input
- VIOLET** - Low Voltage Dim Output (0-10 VDC)
- PINK** - Low Voltage Common (0-10 VDC)

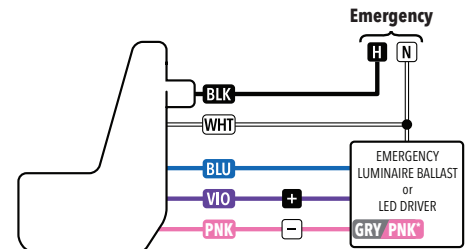


*0-10V Dimming Common from luminaire may be pink or as otherwise indicated per section 410.69 of the 2020 NEC

***Safety Note: only one line phase is being switched**
****480 VAC for reference only - Factory install required**

WIRING TO EMERGENCY (-EM) UNITS

- BLACK** - 120/277 VAC Input Emergency Hot
- BLUE** - Switched Line Voltage Output to Luminaire
- WHITE** - Emergency Neutral
- VIOLET** - Low Voltage Dim Output (0-10 VDC)
- PINK** - Low Voltage Common (0-10 VDC)



*0-10V Dimming Common from luminaire may be pink or as otherwise indicated per section 410.69 of the 2020 NEC

UL924 Sequence of Operation (EM Option):

For 90 minutes following any complete AC power interruption >30 ms:

- Relay is closed and 0-10V dimming is at high end trim level
- Device ignores wireless lighting control commands
- If another nLight AiR device in the nLight AiR group (as defined by Clarity Pro) is on normal power, and has its power restored prior to the 90-minute timeout, the "EM" device will exit this override state and return to normal operation. This is accomplished by having a normal power device send an "exit EM" message to the "EM" device
- Devices that will send the "exit EM" command when normal power is present
 - Dimming Power Pack Devices (rPP20 D/DS)
 - ER Non-Dimming and Dimming Power Pack Devices (rPP20 D/DS ER)
 - Other nLight AiR Non-"EM" Devices (rLSXR, rSBOR, rSDGR, rIO, rES7, rMSOD)
- Devices that will not send the "exit EM" command when normal power is present
 - Non-Dimming Power Pack Devices (rPP20)
 - Other nLight AiR "EM" Devices (rPP20 EM, rLSXR EM, rSBOR EM, rSDGR EM, rIO EM, rES7 EM, rMSOD EM)
 - Ceiling Mount Sensors (rCMS)
 - Wall Switches (rPODB, rPODL)
 - nLight Air Adapter (nECYD)
- Upon power up, "EM" devices will be at high trim setting for 90 minutes. During commissioning with Clarity Pro, the device will exit this override when a device is identified or added to the grid.

For further troubleshooting guidance, please contact the Controls Technical Support Team

1(800)-535-2465

Contains FCC ID: 2ADCB-RMODIT or 2ADCB-RMODIT3

Contains IC: 6715C-RMODIT or 6715C-RMODIT3

Contains IFETEL: RCPACRM18-1879 or RCPNLNL20-2057

Acuity Brands Lighting Inc. RMODIT

This device complies with Part 15 of the FCC Rules. 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.

Este equipo contiene el módulo con IFT #: RCPRIBM18-1491 La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.