INSTALLATION INSTRUCTIONS

1142 | RGBW

COMMERCIAL SERIES LINEAR IN-GRADE

IMPORTANT NOTE: Luminaire must be installed and grounded in accordance with the National Electrical Code (NEC) and local codes.
All conduit entries must be sealed from moisture. Use appropriate sealing material on conduit fittings and conduit closure plugs.
Luminaire is wet location listed and suitable for in-grade applications.
Suitable for all types of construction including poured concrete construction and in soil applications.

SOIL INSTALLATIONS NOT SUITABLE FOR DRIVE OVER LOADING OF FIXTURE.
Suitable for through wiring: Max. of (4) No. 12 AWG conductors (plus ground) rated for 90 °C.

WARNING: Debris must be kept clear from top and interior of in-grade fixtures. Excessive heat could occur that may create a fire hazard and/or harm the fixture components. Specific attention must be made to never install in-grade fixtures in mulch, wood chips or other potentially ignitable materials. Failure to do so will void the warranty and may result in serious injury and/or damage to the fixture and/or property.

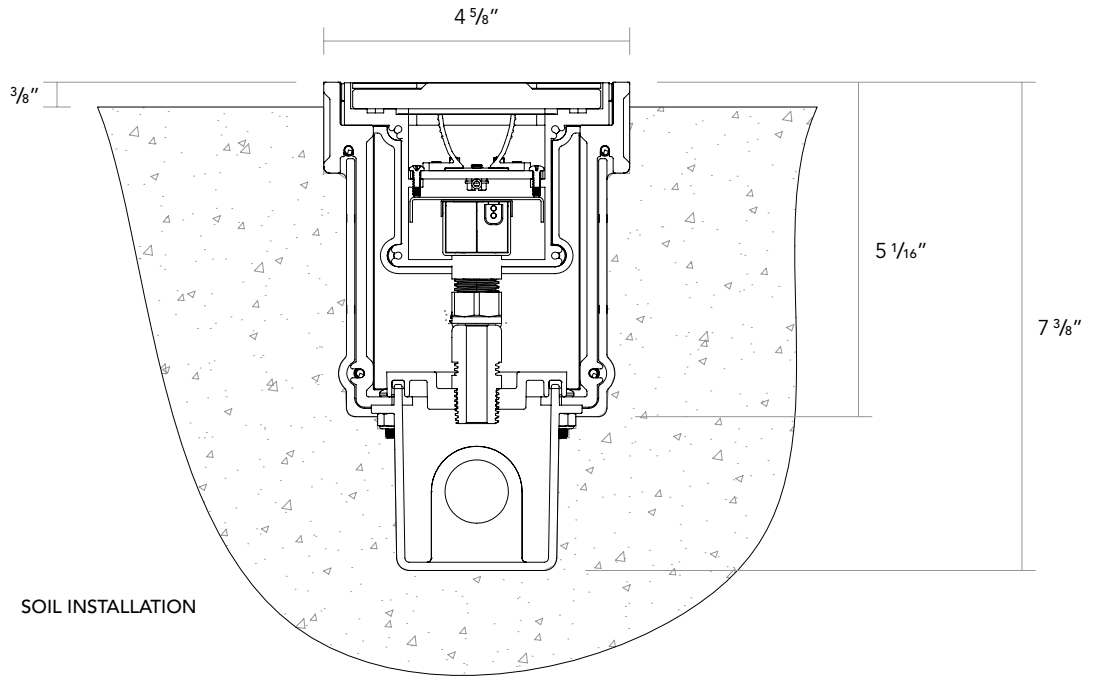
NOTE: Save these instructions for future reference

INGRADE SOIL INSTALLATION

IMPORTANT NOTE: Temporary Cover plate and Vinyl Label must remain in place during Rough-In Section (RIS) installation.

PRECAUTION: Adequate drainage must be provided during installation. It is recommended the luminaire be surrounded by 3" to 4" of pea gravel along the sides and a minimum of 6" of pea gravel at the bottom beneath the luminaire housing. Top of luminaire must be above grade so rain and irrigation water will not accumulate for long periods of time.

1. Dig hole approximately 12" wide to a depth suitable to make top of Temporary Cover Plate 3/8 " above grade. Pea gravel is required for seating the Rough-In Section Housing and providing necessary drainage.
2. The RGBW RIS is equipped the two separate splicing Junction Boxes (one for Power, one for DMX communication). Connect separate conduit runs to each of the two Junction Boxes in RIS. It is recommended to use UL listed outdoor rated flexible conduit for in and out connections to ensure water tightness of splices.
3. Plug any unused NPT holes with closure plugs (provided).
4. Position fixture within the hole and back fill with pea gravel. Only the uppermost layer, 3" maximum, should be soil or organic mulch.
5. To pull Power conductor and DMX communication wiring, first remove and retain the Temporary Cover Plate and Vinyl Label by using a screwdriver.
6. Remove and retain Junction Box Covers and cover screws.
7. Pull electrical Power wires (line in) through conduit and into one of Junction Boxes. For through branch wiring, pull wires upward making a 6" loop above the top rim of the junction box. Designate this junction box for Power.
8. For DMX wiring, pull a suitable DMX cable in a similar manner to the Power supply conductors into the second Junction Box designated for DMX communication. It is recommended that the DMX cable be suitable for EIA-485 (RS-485) use, with one or more low capacitance twisted pairs, with overall braid and foil shielding. Conductors should be 24 AWG (7/0.2) or larger for mechanical strength and to minimize volt drop on long lines. Designate this Junction Box for DMX communication.
9. Stuff the wire loops back into the Junction Boxes, and reinstall the Junction Box Covers using the cover screws.
10. Reinstall the Temporary Cover Plate with Vinyl Label by snapping the plate into the Rough-In Section.



SOIL INSTALLATION

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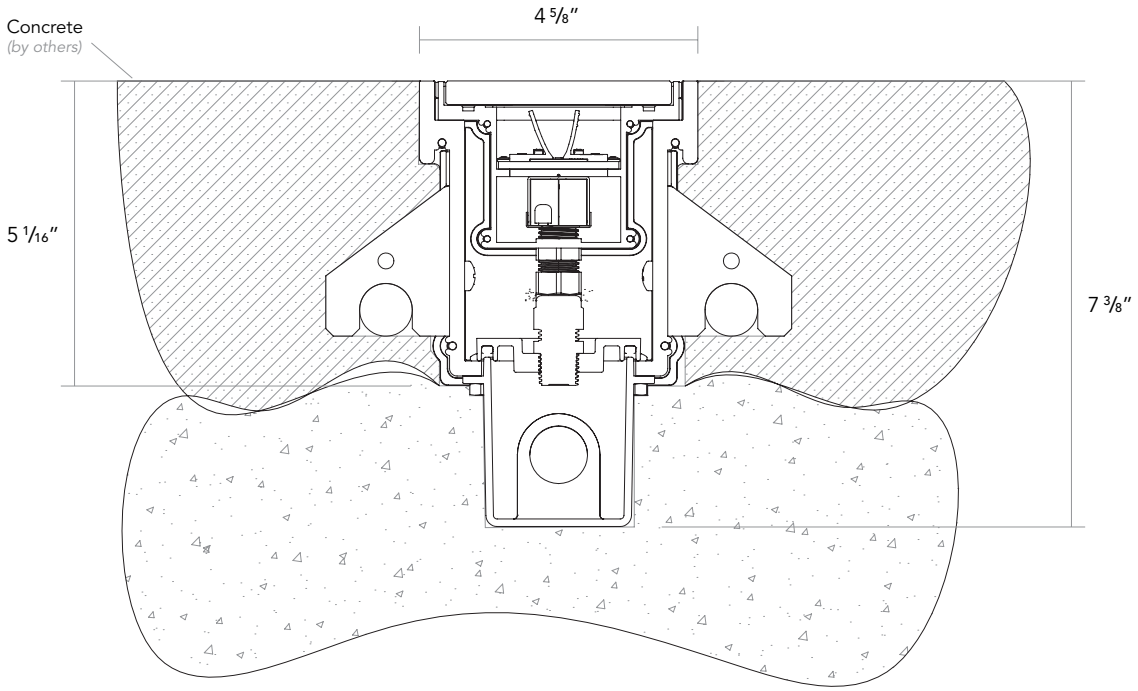
PROFESSIONAL OUTDOOR LIGHTING

CONCRETE POUR INSTALLATION

IMPORTANT NOTE: Temporary Cover Plate and Vinyl Label must remain in place during Rough-In Section (RIS) installation.

PRECAUTION: Adequate drainage must be provided during installation. It is recommended the luminaire be surrounded by 3" to 4" of pea gravel along the sides and a minimum of 6" of pea gravel at the bottom beneath the luminaire housing. Top of luminaire must be FLUSH with finish grade.

1. Dig a hole approximately 12" wide to a depth suitable to make top of Temporary Cover Plate FLUSH with finish grade. Pea gravel is required for seating the Rough-In Section and providing necessary drainage.
2. The RGBW RIS is equipped the two separate splicing Junction Boxes (one for Power, one for DMX communication). Connect separate conduit runs to each of the two Junction Boxes in RIS. It is recommended to use UL listed outdoor rated flexible conduit for in and out connections to ensure water tightness of splices.Plug any unused NPT holes with closure plugs (provided).
3. Plug any unused NPT holes with closure plugs (provided).
4. Position Rough-In Section within the hole and back fill with pea gravel. Only the uppermost layer, 6" maximum, should be concrete pour.
5. To keep Rough-In Section Housing from floating during concrete pour, the Rebar Mount Bracket (RMB) kit should be used to affix housing to a wire/ rebar grid using standard masonry methods.
6. To pull Power conductor and DMX communication wiring, first remove and retain the Temporary Cover Plate and Vinyl Label using a screwdriver in the retaining clip slot.
7. Remove and retain Junction Box Covers and cover screws.
8. Pull electrical Power supply wires (line in) through conduit and into one of Junction Boxes. For through branch wiring, pull wires upward making a 6" loop above the top rim of the Junction Box. Designate this Junction Box for Power.
9. For DMX wiring, pull a suitable DMX cable in a similar manner to the Power supply conductors into the second Junction Box designated for DMX communication. It is recommended that the DMX cable should be suitable for EIA-485 (RS-485) use, with one or more low capacitance twisted pairs, with overall braid and foil shielding. Conductors should be 24 AWG (7/0.2) or larger for mechanical strength and to minimize volt drop on long lines.
10. Stuff the wire loops back into the Junction Boxes and reinstall the Junction Box Covers using the cover screws.
11. Reinstall the Temporary Cover Plate with Vinyl Label by snapping the plate into the Rough-In Section.
12. Pour concrete at least 3" thick. Trowel concrete so that it is even with Vinyl Label. Allow concrete to cure.

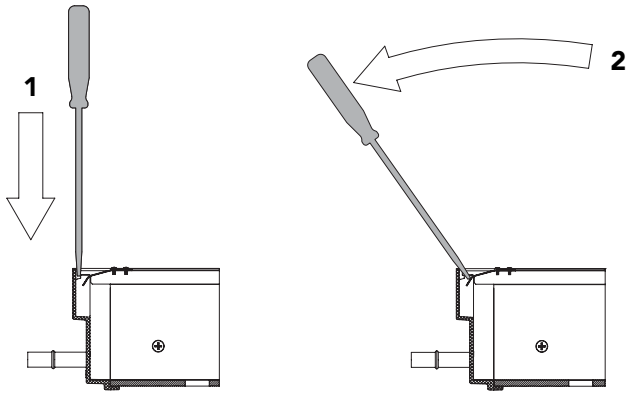


CONCRETE INSTALLATION

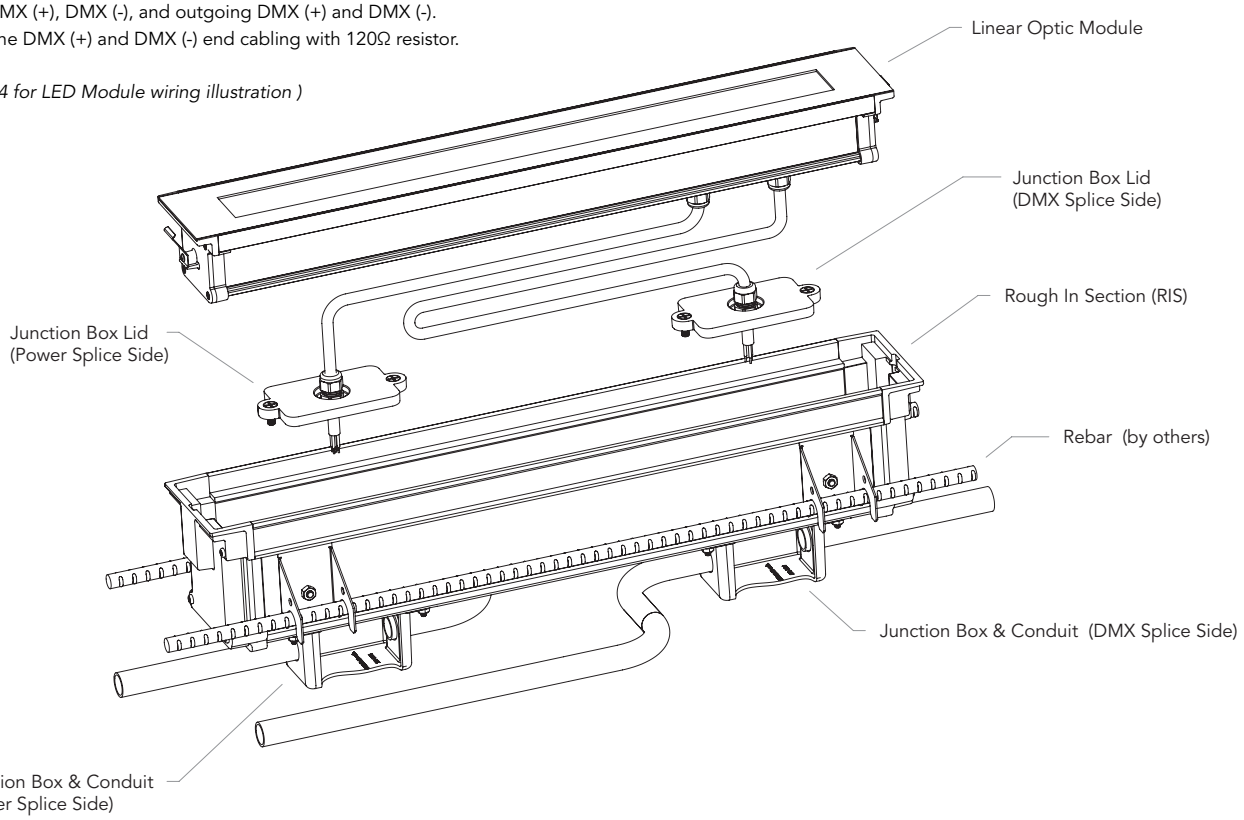
LINEAR RGBW LED MODULE WIRING AND J-BOX COVER INSTALLATION

1. Remove Temporary Cover Plate with Vinyl Label. Recycle or discard Cover Plate.
2. Remove and retain Junction Box Covers and cover screws.
3. The LINEAR RGBW LED Module is fitted with an 18AWG ST-WA Power cable for connection to the Junction Box designated for Power, and a second DMX communication cable, outdoor rated RS-485, 120 ohm, with 2 twisted pairs and foil oversleeving suitable for direct burial in outdoor environments, designated for connection to DMX communication. Each of these cables is to be terminated into separate Junction Boxes that have been designated for Power and DMX communication.
4. Using the appropriate size open-end wrench or Crescent wrench, loosen the top nut of the Junction Box Lid cord seal, slide the power cable through the cord seal until approximately 4" of cable extends into the Power Junction Box which has the power supply conductors pre-pulled. Follow the same process with the DMX communication cable, inserting the cable into the second Junction Box Lidcord seal such that approximately 4" of DMX cable extends into the Junction Box pre-wired with communication cabling. Tighten the cord seal fully.
5. In DMX Power splice Junction Box, pull the Power conductor wire loop out of the Junction Box, cut at center and strip the leads.
6. Using the silicone filled wire nuts (provided), connect the Power conductors in the Power Junction Box to the Power cable of the LINEAR LED Module noting the following polarity:
   Supply (+) to Load (Black)
   Supply (-) to Load (White)
   Supply (Ground) to Load (Green)
7. In the DMX communication junction box, use the Wago® connectors supplied to attach the incoming and outgoing DMX positive (+), DMX negative (-), and drain to the supply communication cable. Please note the markings that identify the incoming DMX (+), DMX (-), and outgoing DMX (+) and DMX (-).
8. Terminate the DMX (+) and DMX (-) end cabling with 120Ω resistor.

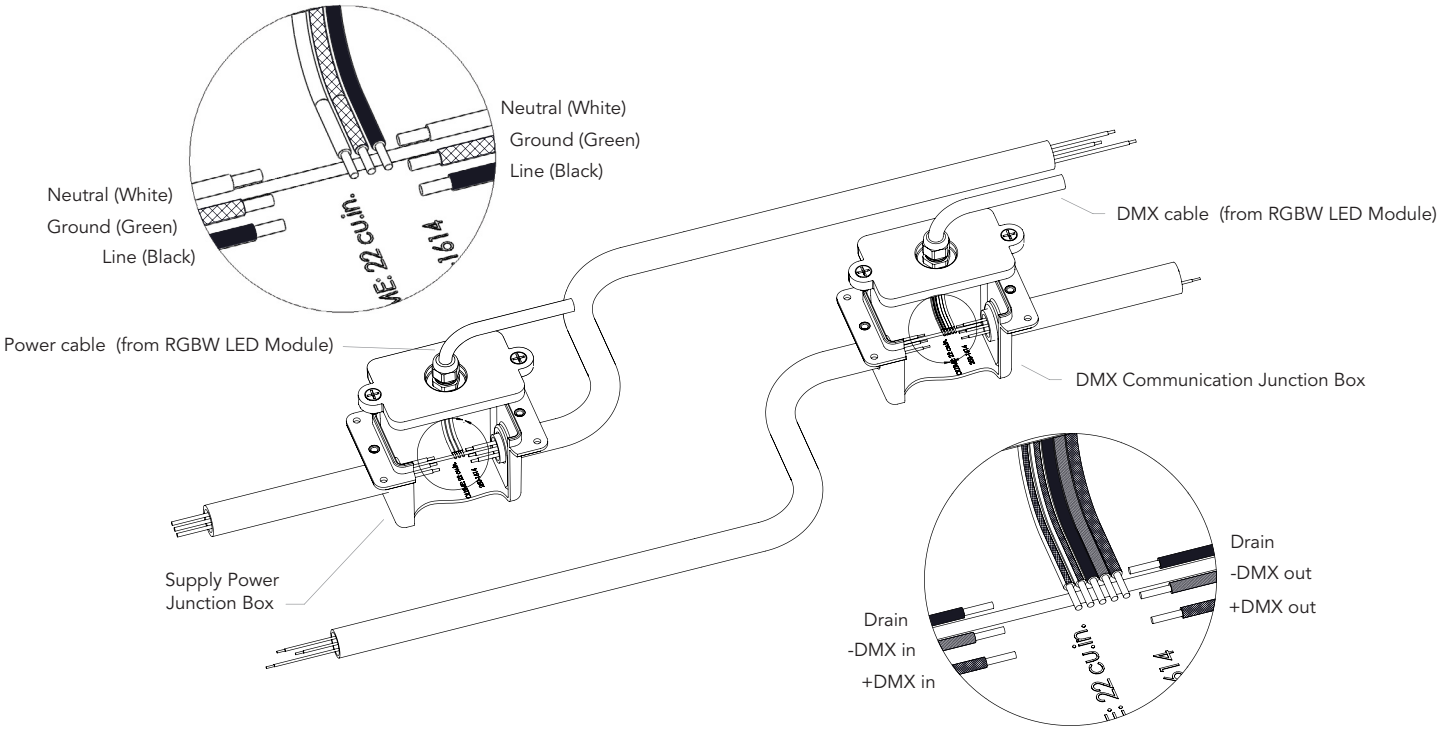
(See page 4 for LED Module wiring illustration)



Temp. Cover / Optic Module Access



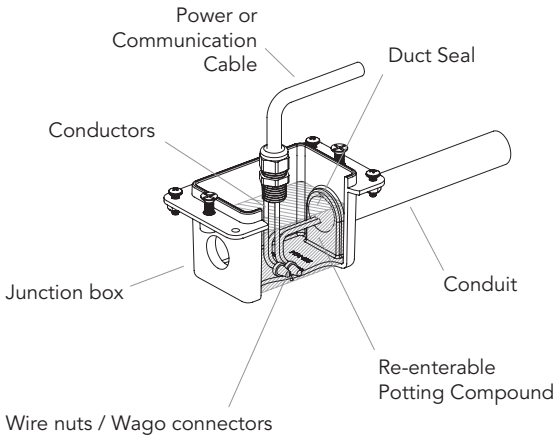
LED MODULE WIRING ILLUSTRATION



INSTRUCTIONS FOR SEALING WIRING COMPARTMENT

IMPORTANT NOTE: Failure to properly wire and encapsulate wiring compartment will void product warranty.

1. After properly wiring the power and DMX communication conductors, position the silicone filled wire nuts or Wago connectors at the bottom of each Junction Box.
2. Test fixture to ensure proper wiring and communication signal. (**IMPORTANT! – TEST BEFORE PROCEEDING**)
3. Use duct seal around the opening of the conduit entry and all wiring to seal off all of the conduit openings.
4. Fill the inside of each Junction Box to cover the duct seal but no more than to the top of the inside hub with re-enterable potting sealant. **DO NOT UNDERFILL OR OVERFILL!**
5. To properly mix the re-enterable potting sealant, remove the pouch from the protective cover. Grasp both sides of the sealant pouch, breaking the internal barrier between parts A&B.
6. Mix the sealant by kneading the two sides back and forth until thoroughly mixed.
7. Cut a corner off of the pouch and pour into the inside of each Junction Box, completely covering the splices. Allow the sealant to dry for approximately 20 minutes or until compound has gelled.
8. Re-install each Junction Box Cover, making sure it is fully tightened until the lid bottoms out on the inside of the RIS.
9. Position the LINEAR RGBW LED Module into the RIS and snap in place.
10. Supply power and DMX signal to the luminaire and check for proper operation.



At Vista's exclusive discretion, replacement or repair of authorized return items, found to be defective upon inspection within the warranty period, shall constitute fulfillment of all Vista obligations under it's warranties.