Vista Mfg., Inc.
53345 Columbia Dr
Elkhart, IN 46514

VISTA GATEWAY

NMEA 2000 LIGHTING INTERFACE

FUNCTIONAL

- NMEA 2000 Bus Controlled
- Six independent light outputs that support RGB and RGBW

ELECTRICAL

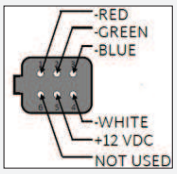
- Input Voltage: 11 to 16 VDC
- Input Current: 45 Amps Max
- Max Power Dissipation: 540 Wats
- Output Current: 7.5 A max, per channel (not to exceed total power limit)

MECHANICAL

- Dimensions: 235 mm x 155 mm x 43 mm (9.252" x 6.102" x 1.692")
- Weight: 1.3 kg (2.9 lbs.)
- Ingress: IP67 Rated
- Mounting: Bulkhead, with 4 screws

CONNECTORS

- Power: Two ¼" screw terminals
  - Two Ring Terminals with 1.4" hole required
  - 3/16" hex key driver required
- Network: Circular, M12, Micro-C, 5-pin, male, NMEA Approved
  - Compatible with NMEA Drop Cables
- Light Outputs: Amphenol AT series 6-pin connector
  - Requires one Amphenol AT04-6S-KIT01 per light connector used
  - Pin out

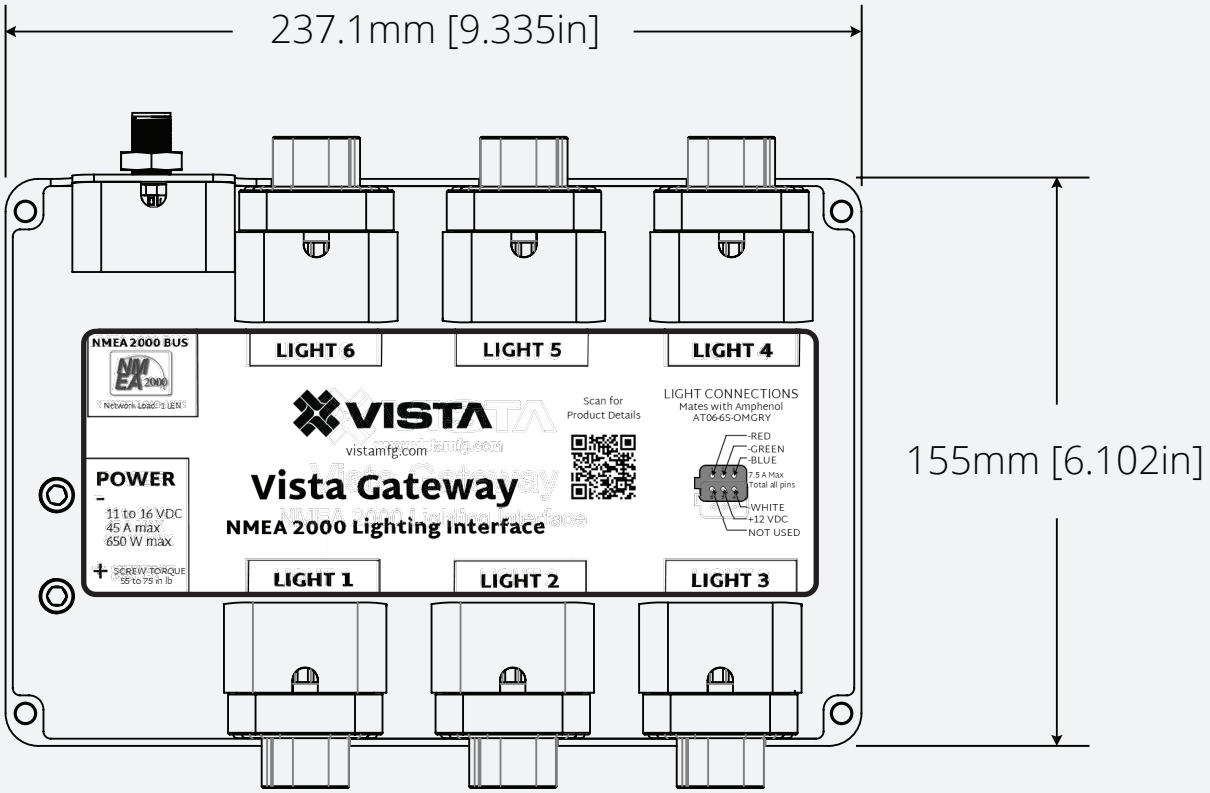


CERTIFICATIONS

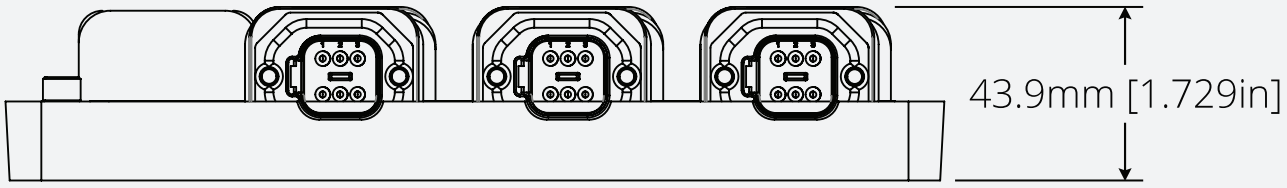
- NMEA 2000 Certified
- RoHS 2011/65/EU Compliant
- REACH No 1907/2006 Compliant
- Tested to IEC 60945 "Maritime Navigation and Radio communication Equipment and Systems" as a "Protected Device"
- Tested to ISO 7637-2 "Road vehicles - Electrical disturbances"

DIMENSIONS

TOP VIEW

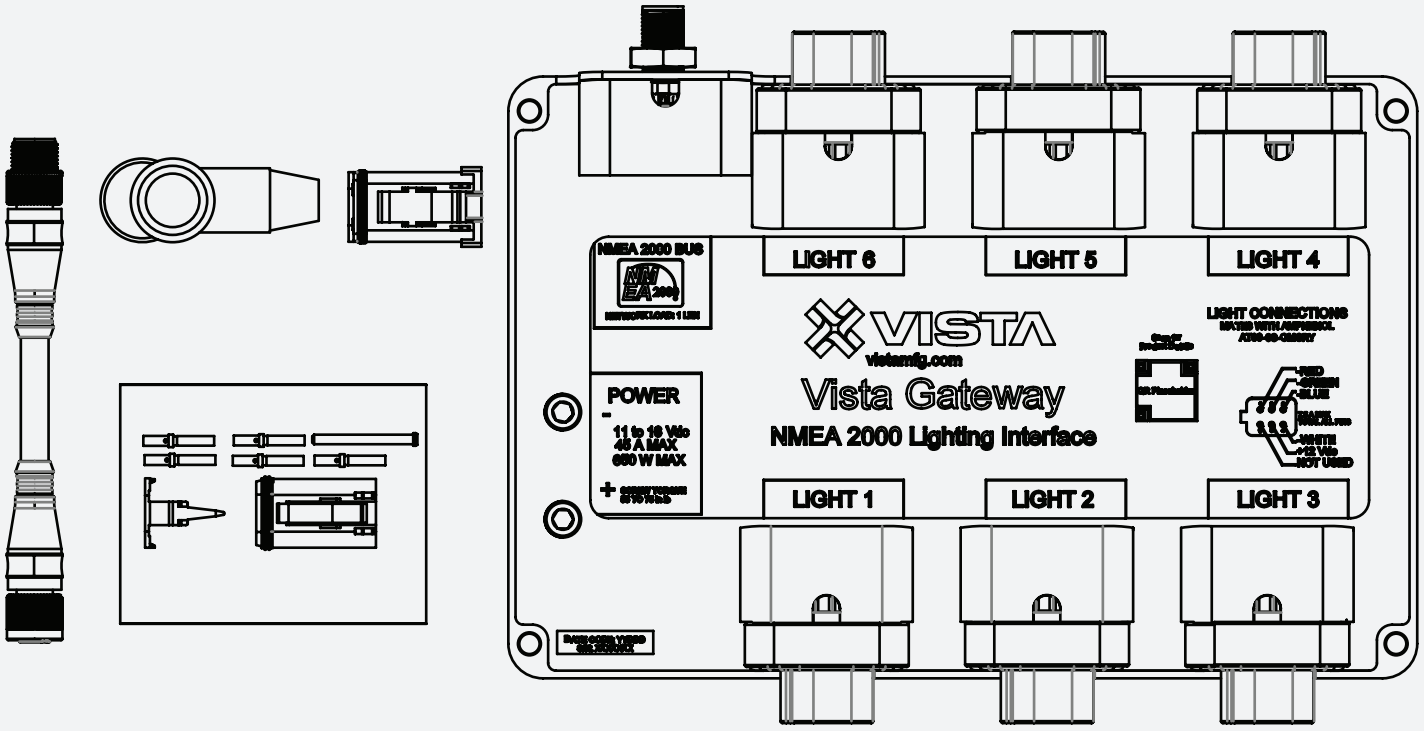


SIDE VIEW



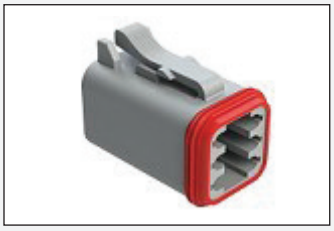
Vista reserves the right to modify this specification without prior notice.

GATEWAY WITH ACCESSORIES



ACCESSORIES

071242 = NMEA Drop Cord
Purpose: To connect your Vista Gateway to an available port on your NMEA Bus.
(Will be offered as an accessory that can be purchased individually)



227077 = Amphenol housing AT06-6S
Purpose: Connector housing used to connect a light to one of the six light ports on your Vista Gateway.

226080 = Amphenol terminal AT62-201-16141
Purpose: Connector terminal used to connect a light to one of the six light ports on your Vista Gateway.

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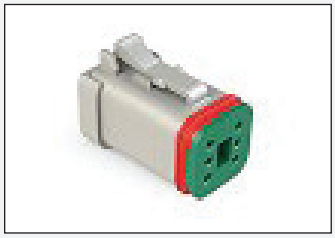
228065 = Amphenol retention wedge AW6S
Purpose: Retaining clip used in the connector housing to hold the terminals in place.

228066 = Amphenol plug seal AT13-217-1605
Purpose: Sealing plug used in the connector housing used to prevent water from entering the housing though the unused wire port.



227078 = Amphenol port sealing plug AT06-6S-SS01
Purpose: Sealing Plug used to seal the contacts of any unused light port on your Vista Gateway. (Offered as an accessory that can be purchased individually)

228506 = Connector terminal boot 5741R
Purpose: Insulates the positive power connection on your Vista Gateway from accidental shorts. Necessary from ABYC and Coast Guard compliance. (Offered as an accessory that can be purchased individually)

***227077 (qty of 1), 226080 (qty of 5), 228065 (qty of 1), and 228066 (qty of 1)**
(will be offered as a **kit** with those items and quantities in a single kit)

INSTALLATION INSTRUCTIONS

PLANNING: The installation will need to be planned in terms of mounting and wiring. Read through the instructions thoroughly to resolve the foreseeable issues before beginning.

MOUNTING: The Vista Gateway is designed to be mounted on a bulkhead by four screws. The type of screws used depends on the material the Gateway is mounted to. The recommended hardware is listed below.

- Any Material where the back side can be accessed: 4 each #10 (or 5 mm) bolts with nuts and lock washers. Length of 1" to 2" (25 mm to 50 mm) depending on the thickness of the material bolted to.
- Sheetmetal: 4 each #10 (5 mm) self-drilling and self-tapping screws.
- The location should be chosen based on the following criteria:

1. Connection of wires to the lights and power supply (See wiring section).
2. Connection of the device to the NMEA bus.
3. Located out of direct sun light and out of compartments that regularly flood.
4. A ventilated location. The engine compartment should not be used.
5. The space required. The mounting location should be flat and an extra clearance of 3.5" (90 mm) off each long side is recommended to allow all the connectors to be inserted.

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WIRING:

Power: The Gateway is powered from the vessel's 12 V power system. To use the Gateway at full capacity, two 6 AWG wire should be used for the power connection. The colors of red for the positive supply wire and black for the negative supply wire are recommended. If the maximum load needed can be calculated based on the lights used the wire size can be scaled down based on the following chart.

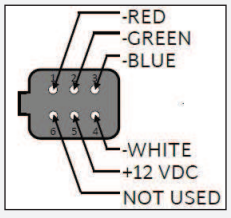
KNOWN MAXIMUM LOAD (AMPS)	MAXIMUM WIRE LENGTH (FT.)	MINIMUM WIRE SIZE (AWG)	MAXIMUM FUSE SIZE (AMPS)
45	25	4	45
45	15	6	45
30	25	6	30
30	15	8	30
30	10	10	30
25	25	6	25
25	15	8	25
25	10	10	25
15	25	10	15
15	10	12	15

The Vista Gateway end of the two power wires should be terminated with a ring or fork terminal that can fit the ¼" terminal screws. The vessel end of the wires will vary depending on the terminals. An insulative boot should cover the positive terminal and screw.

Connections: The Gateway should be connected to the vessel's 12 VDC Distribution Panel if equipped and if it has sufficient current capacity. If the Distribution Panel does not have sufficient capacity, then the positive wire should be connected to the vessel's 12-volt power positive bus bar or the output terminal of the battery switch. An inline fuse of the value listed in the above chart should be placed as close to the supply connection as possible. The negative wire should be connected to the vessel's negative bus bar.

Lights: Lights or parallel strings of lights can be connected to each light port. Parallel strings of lights will be controlled as a single unit by the controller. All lights or string of lights should be of the low-side switched type (one 12-volt supply wires and a negative wire for each color).

Connection of the lights is made using as Amphenol AT04-6S-KIT01 connector kit. The pin out is shown below. Consult the connector's instructions for its assembly.



NMEA 2000 Network Connection:
Use a NMEA approved NMEA 2000 Network Drop Cable to connect the Vista Gateway circular network connector to an available port on the vessel's NMEA 2000 Network.

It is assumed that the installer has a working knowledge of NMEA Network Connections which are beyond the scope of these instructions. However, the network power and terminations as defined in the standard are required for this product.

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