

SV18 Ballast Box



Strobe Lamp

Introduction:

Congratulations on the purchase of your new thru hull light ballast box. Underwater Lights® USA, LLC takes pride in providing well designed, high quality and thoroughly tested lights that allow you to “enhance your boating experience”. These lights can be installed in your vessel for aesthetics, to attract fish, for security and safety.

Features Include:

- Latest electronics technology to guarantee high levels of performance.
- Will continuously pulse an attached strobe light on approximately two second intervals.
- Electrical wiring terminal block with VDC input fuse protection.
- Electrical provision for “daisy chaining” of additional ballast boxes.

General Safety Information:

- This ballast box is specifically designed for use with matching Underwater Lights USA, LLC brand lights only.
- Always ensure that VDC power is disconnected and locked out before performing ballast box installation and/or service.
- The ballast box should be opened and visually inspected every six months.
- Ballast box electrical cabling should be visually inspected for proper operating condition every six months.

Technical Specifications:

- Box Dimensions = 220mm (8.66”) long x 120mm (4.72”) wide x 91mm (3.58”) deep - 1.9 kilograms (5 pounds)
- Box Construction = Molded gray, glass reinforced polyester with integral rubber (EDPM) gasket, IP65/NEMA 4X rated
- Ballast = 1.7 Amps @ 14VDC to 0.85 Amps @ 28VDC - 19 Joules of power (max) - Minimum operating temperature -30°C (-22°F)

Caution! Because reversing polarity will severely damage the strobe power supply (ballast), the WHITE wire must be connected to (+) POSITIVE and the BLACK wire must be connected to (-) NEGATIVE!

- Cable to Ballast Box = Marine grade electrical cable, 16/2 stranded copper wire, with as short a length as possible
- Terminal block fuse = Fast blow 10 Amp cylindrical, 6.3mm diameter x 25mm or 32mm long (0.25” diameter x 1.0” or 1.25” long)

Troubleshooting:

Please contact our technical support staff in Florida at 1-954-760-4447, Monday to Friday from 8:00 am to 5:00 pm EST.

Warranty:

Underwater Lights® USA, LLC warrants this ballast box to be free from defects in workmanship and materials for a period of two years from the date of original purchase. Further, misuse, abuse, improper installation, neglect, improper shipping, damage caused by disasters such as fire, flood and lightning, unauthorized repair or modifications will void said warranty. Should your ballast box prove defective during the warranty period, promptly contact Underwater Lights® USA, LLC for an RMA number and then return the ballast box freight prepaid with the RMA number clearly marked on the outside of the shipping container.

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DOC:092105-6W

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Installation:

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Select a location that affords good access to the ballast box. Preferably the ballast box should be placed in a cool, dry and well ventilated area. Attach the ballast box to a fixed wall or similar secure structure using appropriate M6 fasteners. Note: Whereas, the ballast box can be placed in any orientation, it is recommended that the cable strain relief connectors face down.

Using marine grade 16/2 cable, run a VDC input line into the ballast box and secure by way of one cable strain relief connector. Run supplied marine grade 16/2 cable from the underwater light to the ballast box and secure by way of one cable strain relief connector. Caution! Avoid making tight bends and/or passing cables over sharp edges/surfaces.

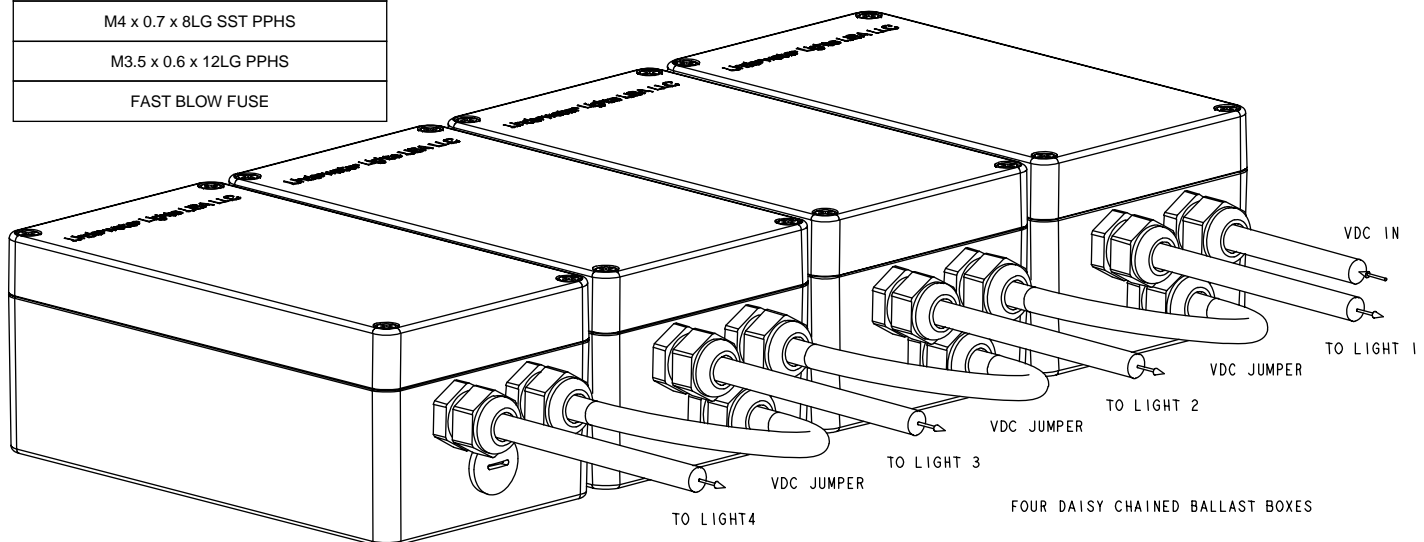
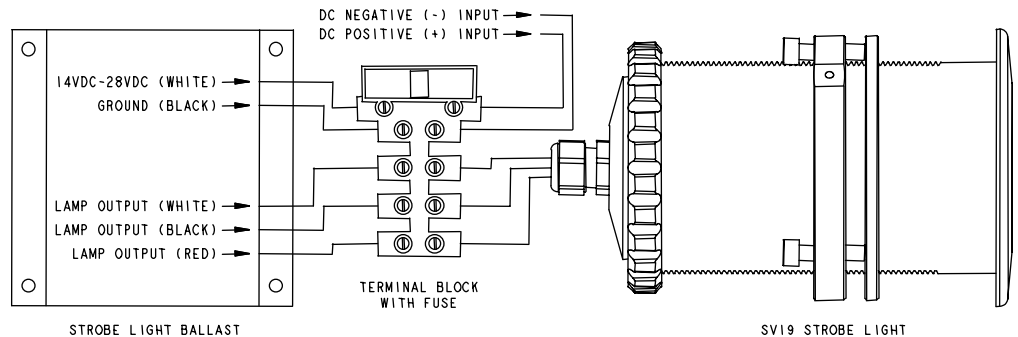
Connect both cable leads in the ballast box as shown in the wiring diagram below.

Optional: Using marine grade 16/2 cable, a VDC jumper line can be "daisy chained" to an additional ballast box by replacing the blanking plug with supplied cable strain relief connector as illustrated below. Note: Four ballast box maximum daisy chain.

Serviceable Parts:

Upon opening the ballast box by unscrewing four captive lid fasteners, replacement of the ballast (power supply) and/or terminal block with fuse is accomplished by removal and replacement of three phillips pan head screws and associated wiring. Further, a 10 Amp fuse located in the fused terminal block may be pulled out and replaced as required. Caution! Ensure that VDC power is disconnected and locked out before servicing ballast box.

| DESCRIPTION |
|-------------------------|
| ENCLOSURE |
| MOUNTING PLATE |
| TERMINAL BLOCK MOUNT |
| CABLE STRAIN RELIEF |
| BLANKING PLUG |
| BALLAST (POWER SUPPLY) |
| FUSED TERMINAL BLOCK |
| M6 x 1.0 x 8LG SST PPHS |
| M4 x 0.7 x 8LG SST PPHS |
| M3.5 x 0.6 x 12LG PPHS |
| FAST BLOW FUSE |



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