



# 500 Watt Xenon Searchlight

“U.S. Coast Guard-Approved”



<b>Beam Intensity</b>	<u>45</u> Million Candela
<b>Distance Serviced</b>	1 lux at 6708 meters
<b>Beam Speed</b>	25° per sec (Fast/Horiz.) 3° per sec (Slow/Horiz.)
<b>Color Temperature</b>	6000 Kelvin
<b>Lamp</b>	500 Watt, Xenon Short Arc
<b>Voltage</b>	115VAC/15 Amps or 230 VAC/8 Amps; 50/60HZ
<b>Horizontal Span</b>	Beyond full circle, 385° with sliding stop
<b>Vertical Span</b>	+35° to -35°
<b>Environmental Protection</b>	IP56
<b>Temperature Range</b>	-40 °C to +55 °C (Survivability down to -46.8 °C)
<b>Beam-Focus Focus</b>	Electric switch widens and narrows beam on demand
<b>Joystick Controller</b>	Proportional-Speed Joystick Controls Speed and Direction with a Single Hand (weatherproof options offered)
<b>Marine Grade Design</b>	Marine Grade Aluminum and Stainless Steel with Salt-Resistant, Scratch-Resistant Powder Coat Finish
<b>Bullet-Resilient</b>	Precision Reflector made of Indestructible Nickel Material

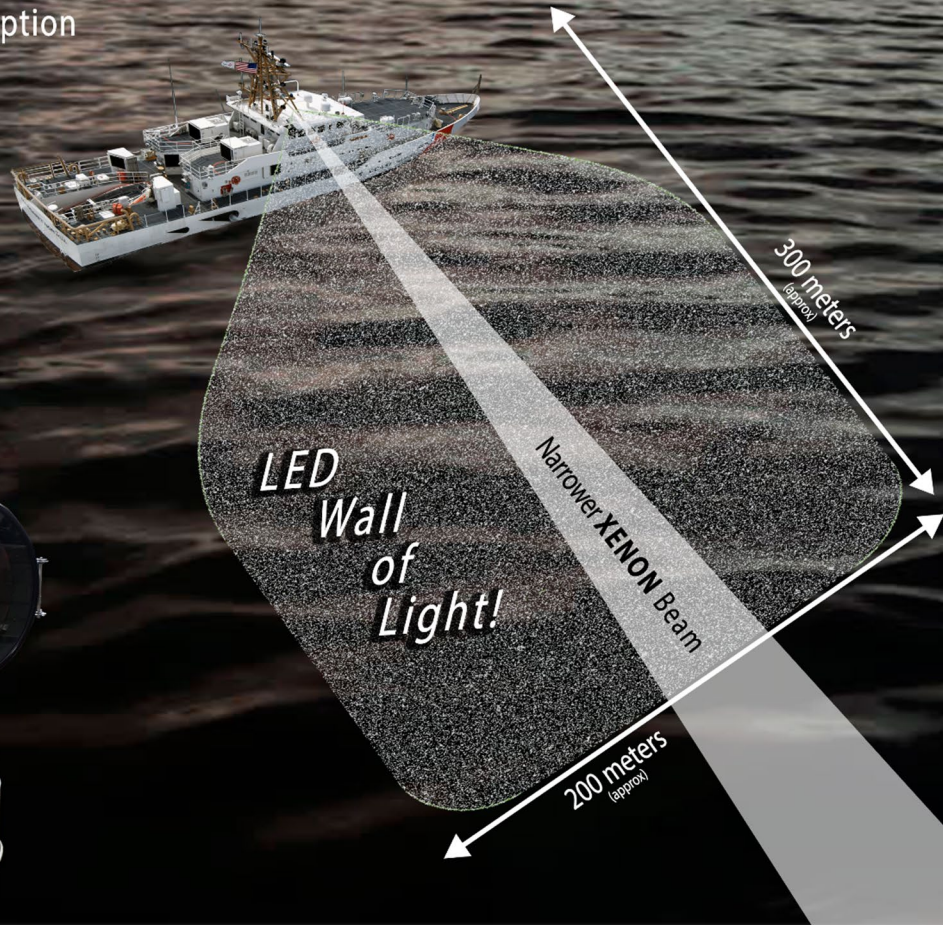
## OPTIONS

<b>Anti-icing Heaters</b>	Thermostatically-controlled heaters in Arm Pivots, Gear Rack and Motorized Base prevent Ice build-up in cold climates
<b>Azimuth Indicator</b>	LCD Panel displays horizontal aiming position in degrees
<b>LED IR Illuminator:</b>	Provides covert surveillance when used with Cameras and NVG's
<b>LED Hybrid:</b>	Auxiliary LEDs project a “Wall of Light” which illuminates wide areas close to the vessel, where the narrower xenon beam cannot service. (see Page 2 Beam Pattern and details)
<b>Manual Back-up</b>	If any motor fails searchlight can be aimed manually in back-up mode, instantly with no tools required
<b>NightFINDER™</b>	Thermal camera enhances night vision capability, and the searchlight beam and camera track on the same target
<b>SmartVIEW™</b>	Control System provides Digital BUS Network, and TCP/IP Interface allows Remote Computer Control. Protocols supported: ONVIF, Pelco-D, NMEA 0183 and C&F's Protocol

*Lighting the way forward since 1894*

## LED Hybrid *"Wall of Light"* Option

"Wall of Light"  
LEDs



Imagine a passenger suddenly falls overboard. Using the auxiliary wide-beam LEDs for ***Search and Rescue***, an operator instantly directs a powerful *"Wall of Light,"* wider than a football field, anywhere around the vessel for immediate rescue. Or during ***Vessel Interdiction***, the captured boat is entirely illuminated at close range, providing law enforcement total situational awareness in the dark of night.

The *"Wall of Light"* is also effective for ***Anti-piracy, Docking Safety, Helping Workers See at Night, Spotting Floating Debris***, and much more! The "Hybrid" searchlight combines wide-beam LEDs, with long-distance Xenon Search capability, into one versatile product!





# Electronic Power Supply with Multi-Board Safety Back-up

## 500-Watt Xenon Power Supply

15% more efficient than previous models at 1/3 of the weight & size

### FEATURES

- 120 & 230 volt models available
- Backward compatible with previous generation Power Supplies
- Improved efficiency
- Integrated Hour Meter and Ammeter
- Multi-board safety back-up design
- Small footprint
- Lightweight Design
- Optional DC Output for 'Wall of Light' LEDs
- Optional Outdoor models available
  - *Special Order Upon Request*



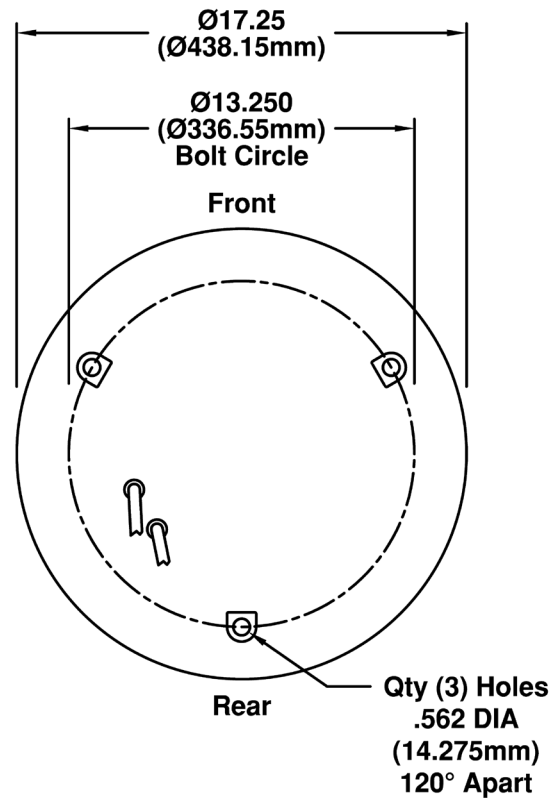
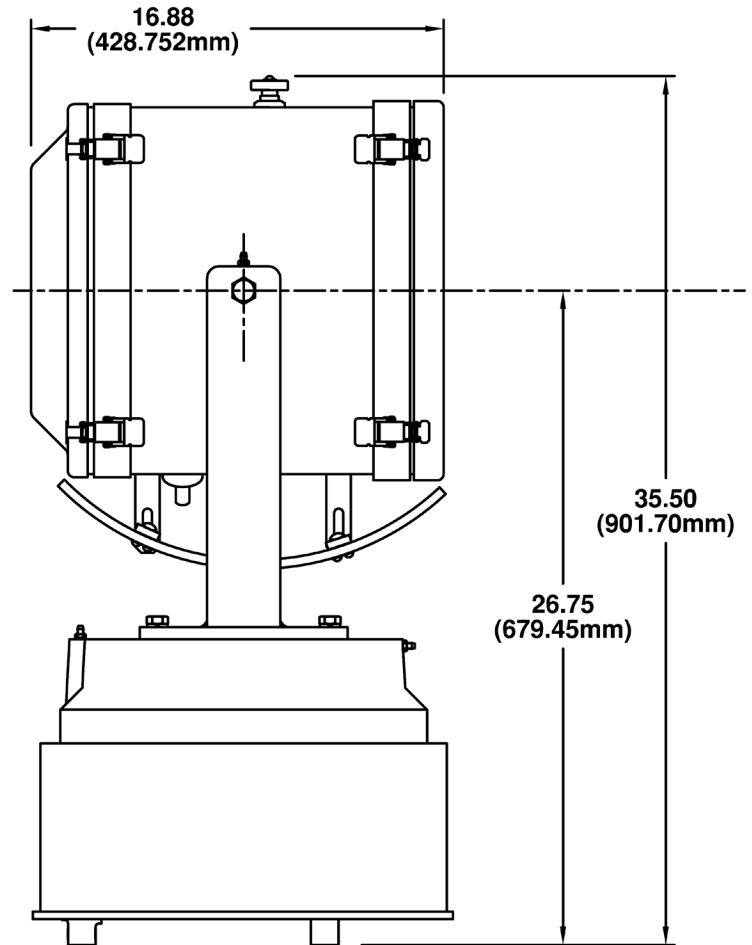
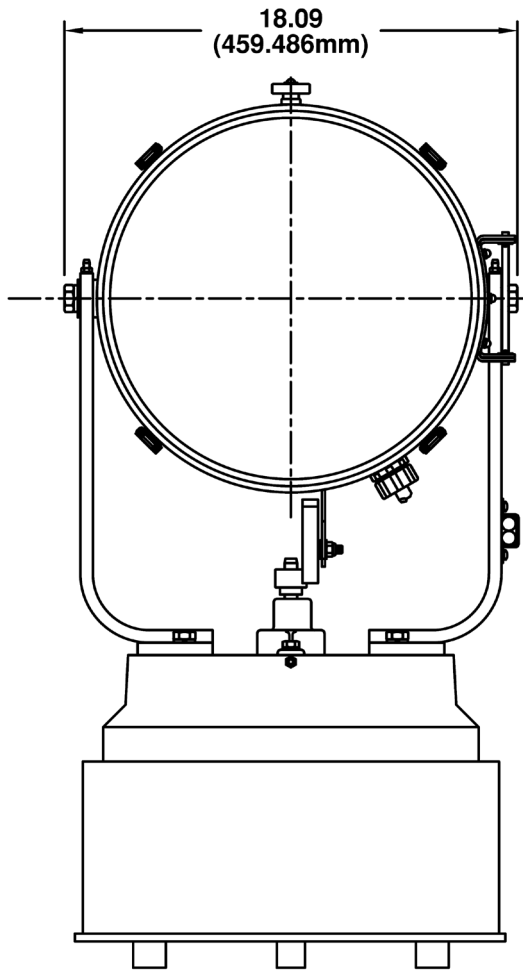
Two (2) electronic boards in parallel provide immediate safety back-up

### MODEL #

- 6PSN115DE 115 VAC, Indoor Mount, Remote Electric Control
- 6PSN230DE 230 VAC, Indoor Mount, Remote Electric Control
- 6PSN115DE-L 115 VAC, Indoor Mount, Remote Electric Control, LED Modules
- 6PSN230DE-L 230 VAC, Indoor Mount, Remote Electric Control, LED Modules
  - K68102 Deck Stand Kit - *Special Order Upon Request*

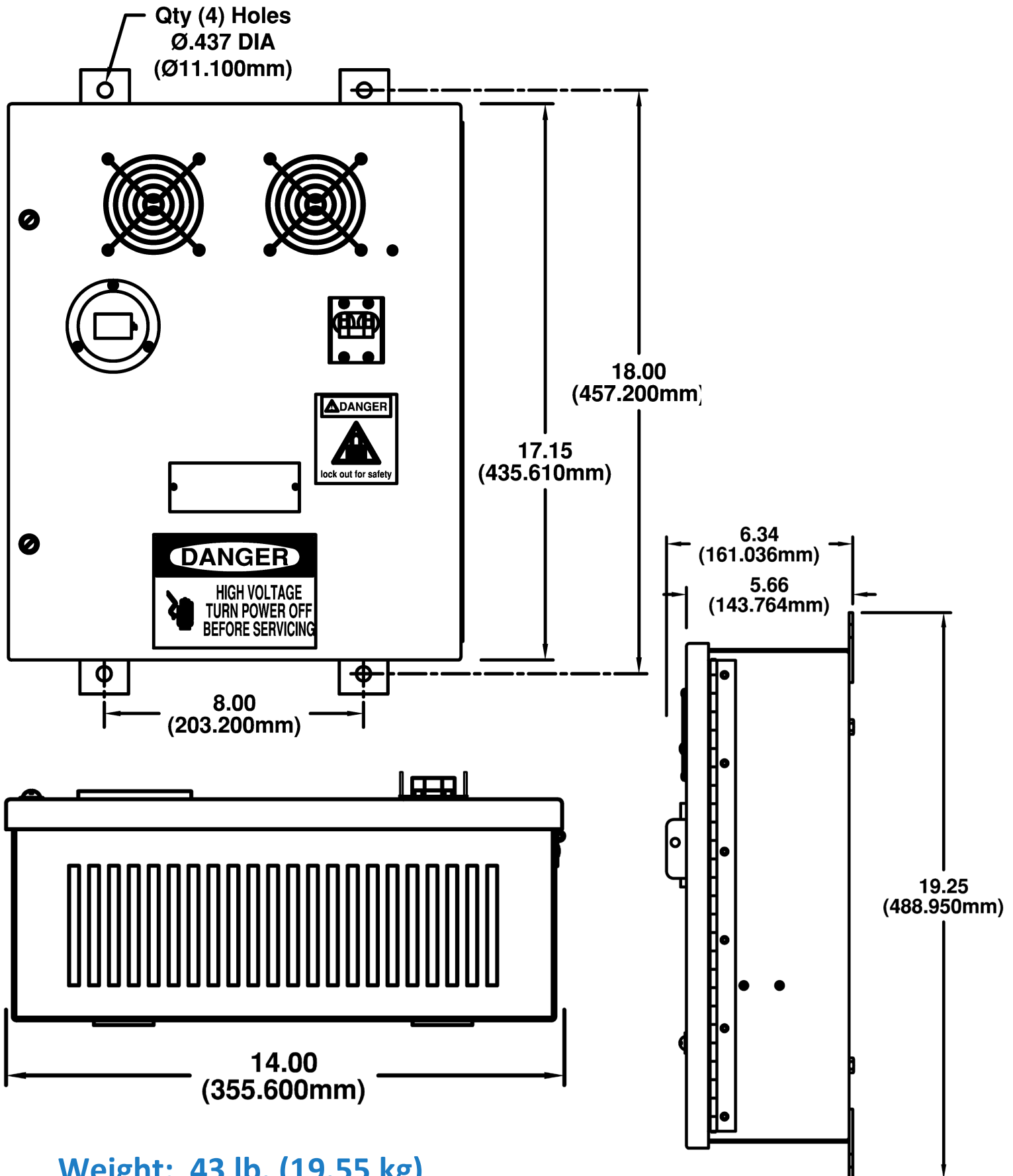
**Multi-Board Safety Back-up Feature:** C&F's unique design has multiple electronic boards connected in parallel that provides built-in redundancy. If one board fails, the searchlight remains operational in Back-Up Mode. This feature ensures searchlight reliability and is not offered by any other searchlight company worldwide. Other searchlights suffer complete outages once an electronic board fails.

## 500 Watt Dimensions in inches (mm)



**Weight: 131 lb. (59.55 kg)**

## Power Supply Dimensions inches (mm)



## Joystick Dimensions inches (mm)



**Proportional-Speed Joystick** controls the Beam Speed and Aiming Direction with a single hand, freeing up the other hand to steer vessel, hold binoculars, etc.

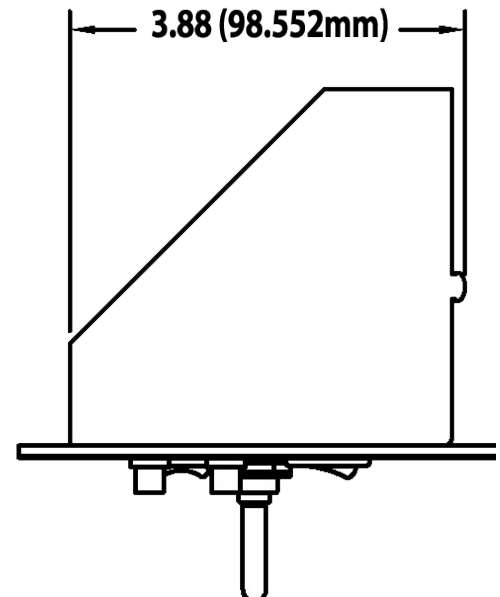
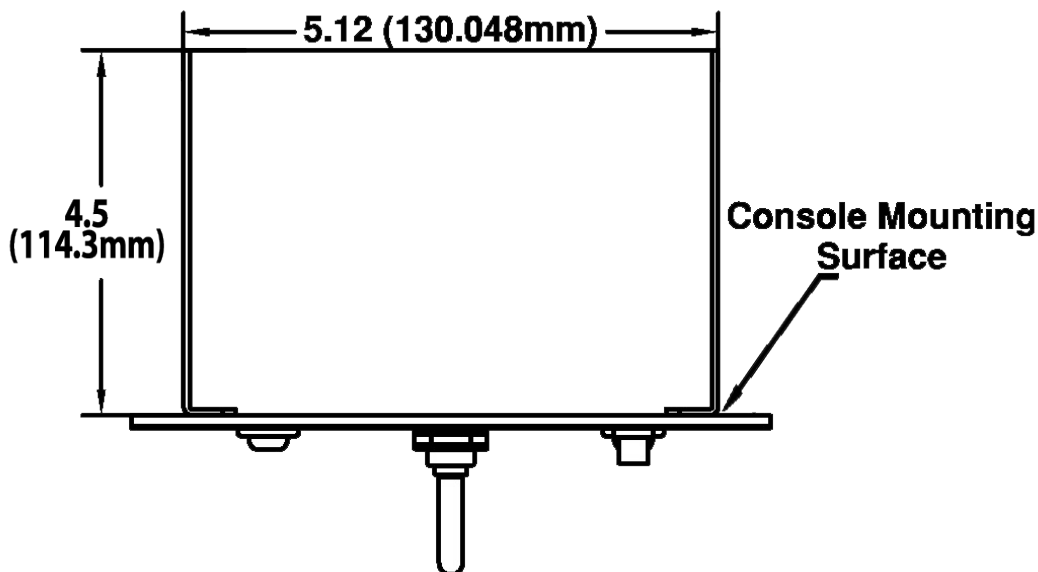
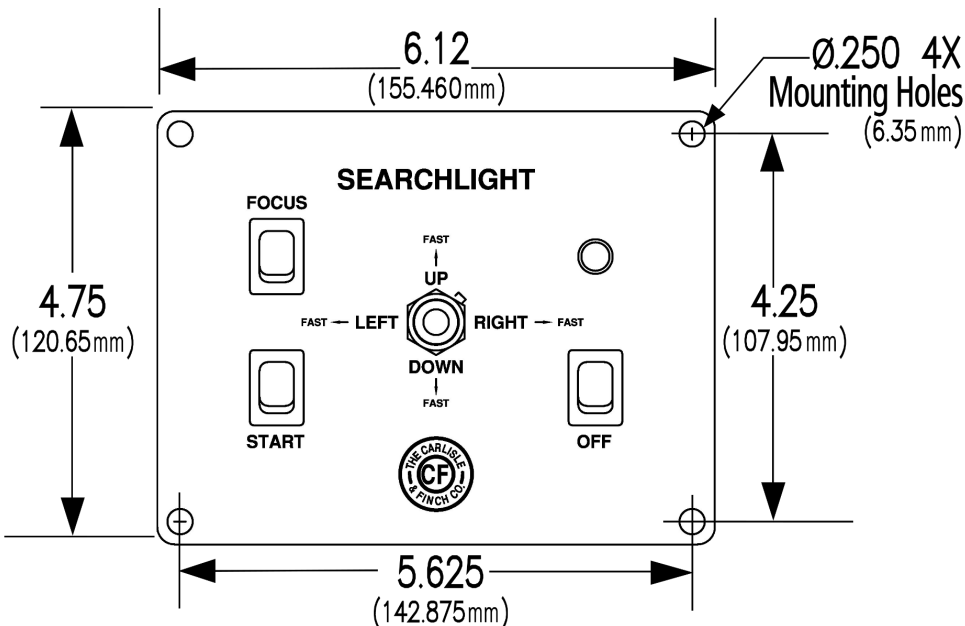
Beam moves slowly at the first position and speeds up at the second position.

### Additional Functions:

- Beam-ON Indicator Light (*Indoor stations only*)
- Beam-ON/OFF
- Beam-Size Focus

### Controller Models:

- C4-1M-1 (Indoor)
- C4E1M-1-2 (Outdoor)
- C6-2M-L2 (LED Hybrid)



# Searchlight System Specification Table

**How to select searchlight model numbers ...** read across table and select one searchlight, one power supply, one master joystick controller and one or more optional secondary controllers.

Searchlight	Power Supply	Indoor Controller	Outdoor Controller
X9398-RF (Standard) X9398-HRF (w/Anti-Icing Heaters)	6PSN115DE (115 VAC) 6PSN230DE (230 VAC)	C4-1M-1	C4E1M-1-2

## Specifying Model Numbers for Options:

- **LED Hybrid “Wall of Light”**

After selecting searchlight from above table, add LED Assembly model K15215X-500 as a separate line item. Add “-L” to Power Supply (i.e., 6PSN115DE-L or 6PSN230DE-L). Then add one or more joystick controllers’ model C6-2M-L2.

- **Azimuth Indicator**

Add “A” after the hyphen in searchlight model number (i.e., X9398-ARF or X9398-AHRF) and add Azimuth Indicator Panel model 10569A as a separate line item.

- **Manual Back-up**

Add “M” after the hyphen in searchlight model number (i.e., X9398-MRF or X9398-HMRF).

- **NightFINDER™ Thermal Camera**

Add thermal camera model NF14400X-500 as a separate line item.

**Note:** Installer must provide a 12 VDC 25 watt circuit and Camera On/Off Switch.

- **SmartVIEW™ Digital Control**

Consult Factory for model numbers.

## Below are example orders demonstrating the selection of correct model numbers

**Example 1:** A 115 VAC Searchlight with Anti-icing Heaters and includes (1) Indoor and (1) Outdoor Controller consists of the following: Model X9398-HRF Searchlight, Model 6PSN115DE Power Supply, Model C4-1M-1 Indoor Controller and C4E1M-1-2 Outdoor Controller.

**Example 2:** A 230 VAC Searchlight with LED Hybrid “Wall of Light”, and (2) Indoor Controllers consists of the following: Model X9398-RF Searchlight, Model K15215X-500 LED Assembly, Model 6PSN230DE-L Power Supply, and (2) Model C6-2M-L2 Controllers.

**Example 3:** A 115 VAC Searchlight with Anti-icing Heaters, LED Hybrid “Wall of Light”, Manual Back-up and (2) Indoor Controllers consists of the following: Model X9398-HMRF Searchlight, Model K15215X-500 LED Assembly, Model 6PSN230DE-L Power Supply, and (2) Model C6-2M-L2 Controllers.

\* **Release Date:** February 2025\_Product specifications and models are subject to change without notice as part of our ongoing product innovative efforts.