

# LED Matrix™ 3R Sealite®

- Light Output greater than 400W HMI.
- Virtually zero maintenance with 50,000 hour LED lifespan.
- Remote driver with up to three light heads.
- Super rugged, resistant to shock and vibration.
- Thermal monitoring allows operation in air or water.
- Flicker-free dimming using phase control dimmer.
- 6000m depth rated.



**DEEPSEA**  
POWER & LIGHT®

Patents Pending

## Preliminary Spec Sheet

# LED Matrix™ 3R SeaLite®

After extensive research and development, DeepSea Power & Light is proud to introduce the **LED Matrix™ 3R SeaLite®**.

The **LED Matrix™ 3R SeaLite®** is an elegant combination of cutting edge technology and proven engineering. Each light head has an array of 32 high brightness LEDs, all powered by DeepSea's proprietary driver, ensure maximum light output and reliability. Designed with a scratch resistant sapphire crystal port and thermal monitoring that automatically protects the LEDs from overheating, this rough and tough light is built to handle anything the harsh ocean environment throws at it, from the splash zone to the deep ocean abyssal plains.

Pushing the design envelope even further, exclusive circuitry allows the **LED Matrix™ 3R SeaLite®** to achieve flicker-free, smooth, full range dimming using a phase control dimmer. DC variable voltage control and RS-485 will be available as alternative dimming options in the near future.

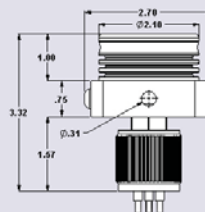
MECHANICAL	
Body Material	Hard Anodized Aluminum (7075)
Window Material	Sapphire
Mounts	High Strength Stainless Steel Yoke (standard)
Air Weight of Ballast	7.7 lbs (3.49 kg)
Water Weight of Ballast	3.38 lbs (1.53 kg)
Air Weight of Light Head	0.8 lbs (0.35 kg)
Water Weight of Light head	0.5 LBS (0.23 KG)
Implodible Volume	TBD
ENVIRONMENTAL	
Depth Rating	6,000m (20,000ft)
Test Pressure	10,000 psi
Crush Depth	TBD
Min/Max Operation Temp.	-10°C to 40°C (14° to 104°F)
OPTICAL	
Color	Red, White, Blue
Lumens in the Water*	17,700 Lumens (measured with all 3 light heads on)
Color Temp	6900°K (White LED)
Beam Pattern**	Flood: 60°
ELECTRICAL	
Input	85 - 150VAC @ 50/60Hz, 75-200VDC, 375W max or 150VAC-250VAC @ 50/60Hz, 200-300VDC, 375W max
Power Factor	TBD
Dimming	Dimmable using SCR or Phase Control (other option coming soon)

\*True amount of light leaving the fixture, as measured with a calibrated integrating sphere.  
(calibration traceable to NIST)

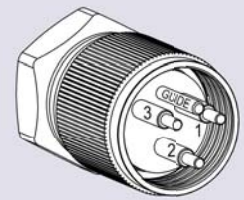
\*\*Beam angle measured to full width half power.

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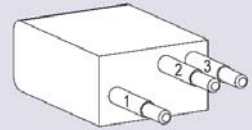
*Specifications subject to change without notice.*



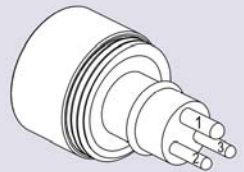
## Standard Connectors



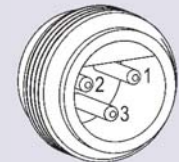
**BH3MP**  
(1=Hot, 2=Neutral, 3=Ground to shell)



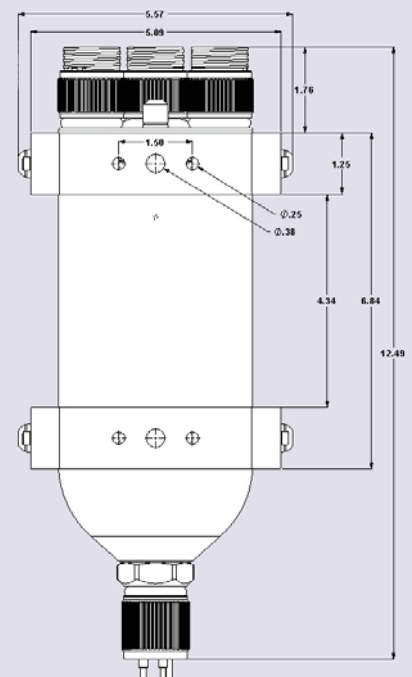
**LPBH3MP**  
(1=Hot, 2=Neutral, 3=Ground to shell)



**XSG3BCL**  
(1=Ground to shell, 2=Neutral, 3=Hot)



**1503**  
(1=Hot, 2=Neutral, 3=Ground to shell)



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