

LED-K-365UV-DC

Ultra-violet Underwater LED "Black Light"



underwater **vision** specialists

Features

- Latest in LED Technology
- 24Vdc
- 85° Wide Angle Beam of Light
- 3,000 Metre Operating Depth

Description

The Bowtech Products LED-K-365UV-DC features the latest in LED technology. The light produces and emits UV light only. As a result, only usable UV is present, to enable hydrocarbon detection far more effectively than using outdated Black Lights.

The lamp is ideal for use with fluorescent tracer dyes (3 types listed overleaf), for identifying leaks from pipelines, risers and subsea wellhead equipment.

The 3,000 metre rated housing is made from hard anodised Aluminium, Titanium or Stainless Steel, which all offer proven, corrosion resistance.

The lamp has a thermal cut-out, to protect it from extended accidental operation in air and is fitted with a solid state UV array, with a wavelength of 365nm. The light produced is ideal for conventional oil leak detection and is more commonly known as a black light.

The lamp is supplied with UV-protective eyewear.



Benefits of LED Lighting

No Fragile Filaments

Rugged Construction

Highly Shock and Vibration Resistant

Enormous "In-service"
Cost Saving Over Incandescent Bulbs



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Revision: 0

Specification – LED-K-365UV-DC

ELECTRICAL

Input Power Requirement: 24Vdc, 1,000mA

OPTICAL

Window/Lens: Acrylic
Typical Radiant Flux: 365nm
Typical Wavelength: 3.5W
Hard Anodized 6082-T6 Aluminium

ENVIRONMENTAL

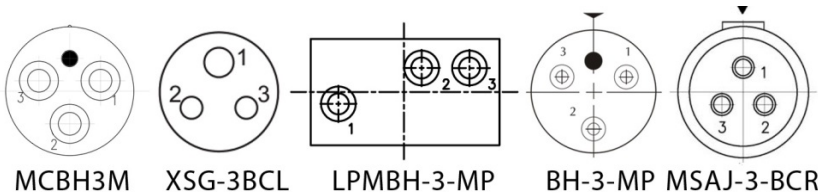
Operating Depth: 3,000m (9,842ft)
Storage Temperature: -30 to +70°C
Operating Temperature: -10 to +40°C (in water)
Housing Materials: Titanium, Stainless Steel

MECHANICAL

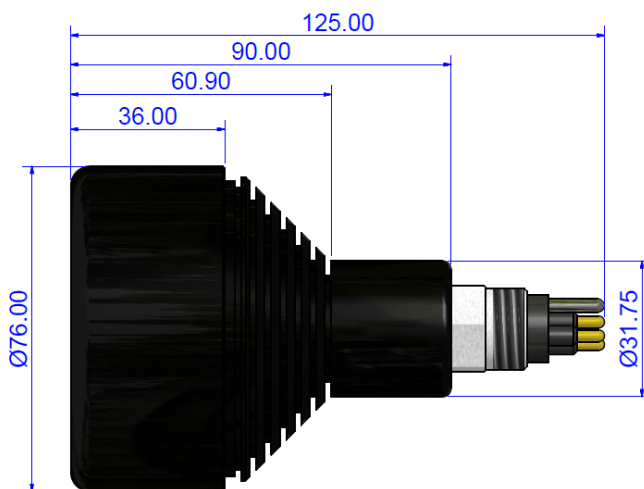
Length: 89mm (3.5in) Excluding Connector
Diameter: 76.0mm (3in) Front-end, 31.75mm (1.25in) Body
Lamp Type: Solid State UV Array
Weights in Air: Aluminium 0.460kg, Titanium 0.670kg, Stainless Steel 1.080kg
Weights in Water: Aluminium 0.240kg, Titanium 0.450kg, Stainless Steel 0.860kg
Mounts: Optional Mounting Bracket with a Variety of Thread Mounts
Typical Beam Angle: 85° to 50° Power Points
Standard Connector: MCBH3M
Optional Connectors: A Wide Range of Connectors
Tested for use with Tracer Dyes: Cleardye, Castrol Transaqua HT2, Pelagic 100

WARNINGS

UV radiation. Do not view directly with optical instruments. Avoid any eye exposure, neither direct nor with optical systems. The light output of the product may cause injuries to human eyes in circumstances where the products are viewed directly with unshielded eyes for more than a few seconds. Avoid prolonged exposure to skin or other tissue. Each lamp is supplied with UV-protective eyewear.



(connector face patterns not to scale)



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