



CT4018 User Guide



CT4018 1500L Mini LED Light

REVISION 1.0

1. OVERVIEW

Ultra-compact subsea LED light for space-constrained applications

The CT4018 is a compact subsea LED light designed for reliable operation at depths of up to 6000 m.

With a length of 75 mm and a diameter of 23 mm, it offers a minimal footprint and low weight, making it suitable for installations where space and payload are limited. The light provides consistent wide-angle illumination for a range of subsea applications.

2. KEY SPECIFICATIONS

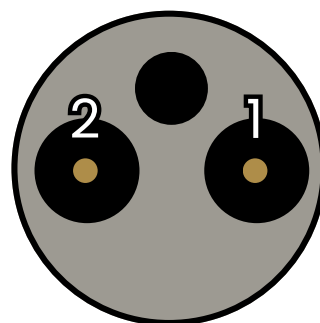
- Typical luminous flux: 1500 lm
- Colour temperature: 5500 K
- Beam angle: 125°
- Depth rating: 6000 m
- Supply: 24 VDC

3. ELECTRICAL INTERFACE

Connector: MCBH2M

Pin	Function
1	+12–24 VDC
2	0 V

Pin Connector Face View



4. INSTALLATION

The standard wiring for the light is detailed above. The unit is designed to operate from a regulated 24 VDC supply.

5. OPERATION

The light is designed for continuous operation within the specified voltage range.

Note: Operation of the light in air for prolonged periods will result in the body and front port becoming hot to the touch. For extended operation in air, a reduced supply voltage may be used where appropriate.

6. MAINTENANCE

The light should be rinsed and dried after every use.

The bulkhead connector should be examined for wear or damage, cleaned, and lightly lubricated as required.

Maintenance should only be carried out by a competent person.

To access internal components, unscrew the end cap counter-clockwise and remove the internal assembly.

During reassembly:

- Check O-ring seals and replace if required
- Reassemble in a low humidity environment
- Back-purging with nitrogen is recommended to prevent condensation forming on the port

7. WARRANTY

C-Tecnicos warrants that its products will be free from manufacturing defects for twelve months from the date of purchase, provided they are operated under normal use and appropriate procedures are followed.

This warranty does not cover expendable items or normal wear and tear.

Full warranty terms and conditions are available on request.

8. SUPPORT

For servicing, repairs, or technical support:

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