

K Light

Subsea Midwater 24Vdc LED Floodlight

The Teledyne Bowtech 3000m rated K Light range of 24Vdc, subsea LED floodlights offers varying brightness and power options, making them ideal for larger midwater observation and work class ROVs. The range includes 5 variants of light intensity: 1,000, 2,100, 3,200, 4,200 and 5,000 lumens.

Housed in hard anodised aluminium, the K Light has a diameter of 76mm and a length of 88.9mm (excluding connector). It is offered with a choice of connectors and wiring configurations and comes with thermal protection to help prevent the light from overheating.

The 1,000 lumens variant has been specially set up to operate both in air and water. All other variants should only be operated in water and have built-in thermal protection to prevent overheating if operated in air.

The K Light has a selection of controls, including normal ON / OFF power switching and dimming controls via either remote analogue voltage control or 'Remote active dimming control' through the Teledyne Bowtech browser (supplied on a USB stick) via an RS-485 interface.

If you are unsure of the correct specification when ordering these lights, please contact a member of our sales team to discuss your preferred lumens output, control option, connector and wiring configuration.



PRODUCT BENEFITS

- Low-power 24Vdc LED light
- Choice of 5 different brightness models to choose from
- Choice of remote-control options
- Thermal limiting protection feature
- High-quality durable anodised aluminium 3000m rated housing
- For midwater observation and work class ROVs
- Ideal for a wide range of subsea operations



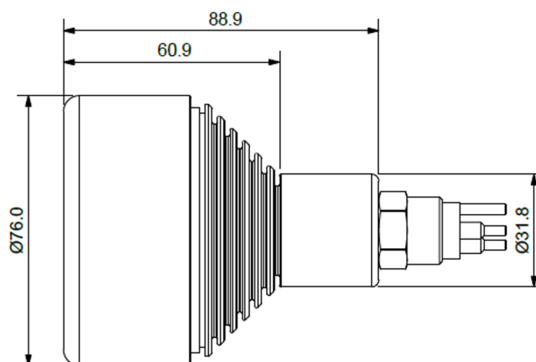


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TECHNICAL SPECIFICATIONS

Electrical	Voltage	24Vdc (12 to 36Vdc)
	Current at nominal voltage	0.32A (1,000lm) 0.61A (2,100lm) 0.95A (3,200lm) 1.41A (4,200lm) 1.68A (5,000lm)
	Power	7.68W (1,000lm) 14.64W (2,100lm) 22.8W (3,200lm) 33.8W (4,200lm) 40.3W (5,000lm)
	Connector	Contact for options
	Control method	ON / OFF switch, analogue voltage, RS-485 serial input interface
Optical	Luminous flux options	1,000 lumens 2,100 lumens 3,200 lumens 4,200 lumens 5,000 lumens
	Typical illuminance @ 1m	480lx (1,000lm) 720lx (2,100lm) 1100lx (3,200lm) 1520lx (4,200lm) 1800lx (5,000lm)
	Lumen maintenance (70%)	>50,000 hours
	Colour temperature	6,500K
	Beam angle	80°
Mechanical	Housing / window	Aluminium-6082 T6 (hard anodised) / Optical Acrylic
	Dimensions	Ø76mm (LED Housing), Ø31.8mm (body) x 88.9mm length (exc. Connector)
	Weight in air / in water	0.422kg / 0.22kg
Environmental	Depth rating	3000m
	Storage temperature	-30°C to +70°C
	Operating temperature	-10°C to +40°C
	Shock	3 axis (operating), 30g peak, 6ms half sine pulse
	Vibration	3 axis (operating), 10g, 20 to 150Hz
	EMC emissions & immunity	BS EN 55015:2013+A1:2015 BS EN 61547:2009
	RoHS	Directive 2011/65/EU (RoHS compliant when fitted with RoHS compliant connector)

Product dimensions (for reference only)



TELEDYNE MARINE
BOWTECH
Everywhereyoulook™

www.teledynemarine.com/bowtech

Tel. +44 (0)1224 772345

Email: bowtech@teledyne.com

