

Pulsestar VCT High Intensity Pulsed Lighting for Transport and Rail



VCT6



VCT6-T20

- High intensity - up to 0.5kW lighting drive power
- Highly flexible and configurable
- Ethernet control
- Long lifetime and low maintenance
- Easy camera integration
- 12V and 24V DC as standard
- Compact housing or board-only variants
- 5-year warranty

PULSESTAR VCT Infra-Red illuminators are designed for mobile and fixed transport applications, including traffic and rail installations. VCT is available with a compact IP65 housing, or as a board-only version; both allow easy integration with OEM systems.

Using high-power LED technology, VCT illuminators deliver up to 0.5kW of lighting drive power to provide outstanding illumination. A fully integrated GUI means the power, duration and frequency of the pulse can all be adjusted and tailored to each application.

A trigger input means the illuminator can be connected to a camera and synchronised with its shutter to deliver maximum light levels, exactly when needed. Increasing the lifetime of the illuminator and reducing maintenance, the VCT is perfect for difficult to reach transport applications.

Vision Light Tech B.V.

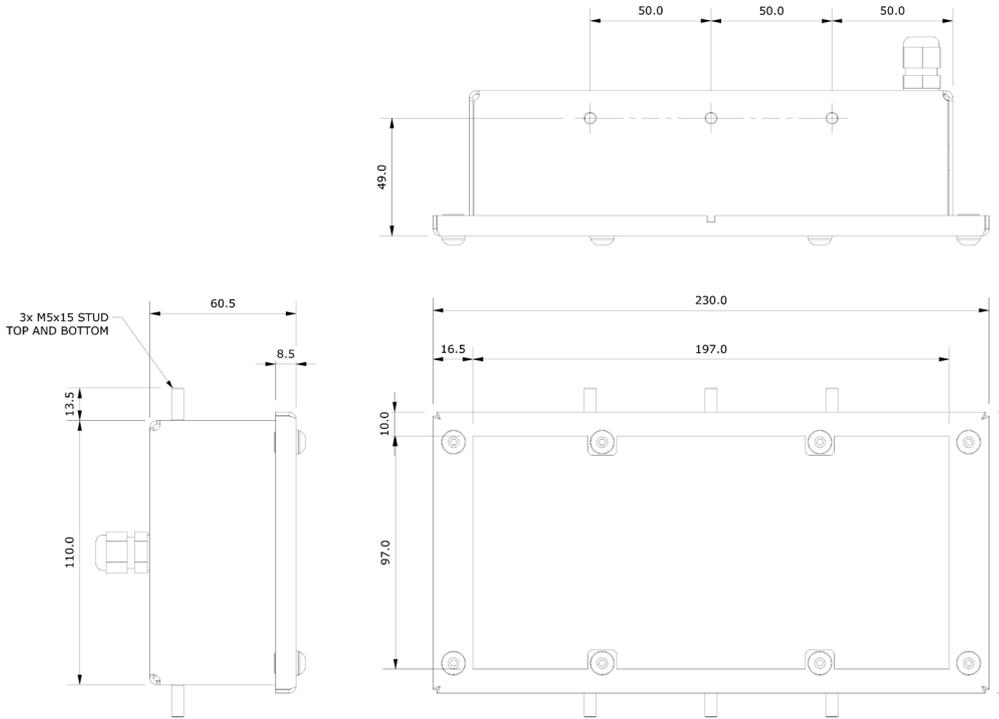
Protonenlaan 22, 5405 NE UDEN, P.O. Box 345, 5400 AH UDEN, The Netherlands

Phone: +31 (0)413 26 00 67, Fax +31 (0)413 26 09 38, E-mail: inquiry@vlt.nl, Website: www.vlt.nl

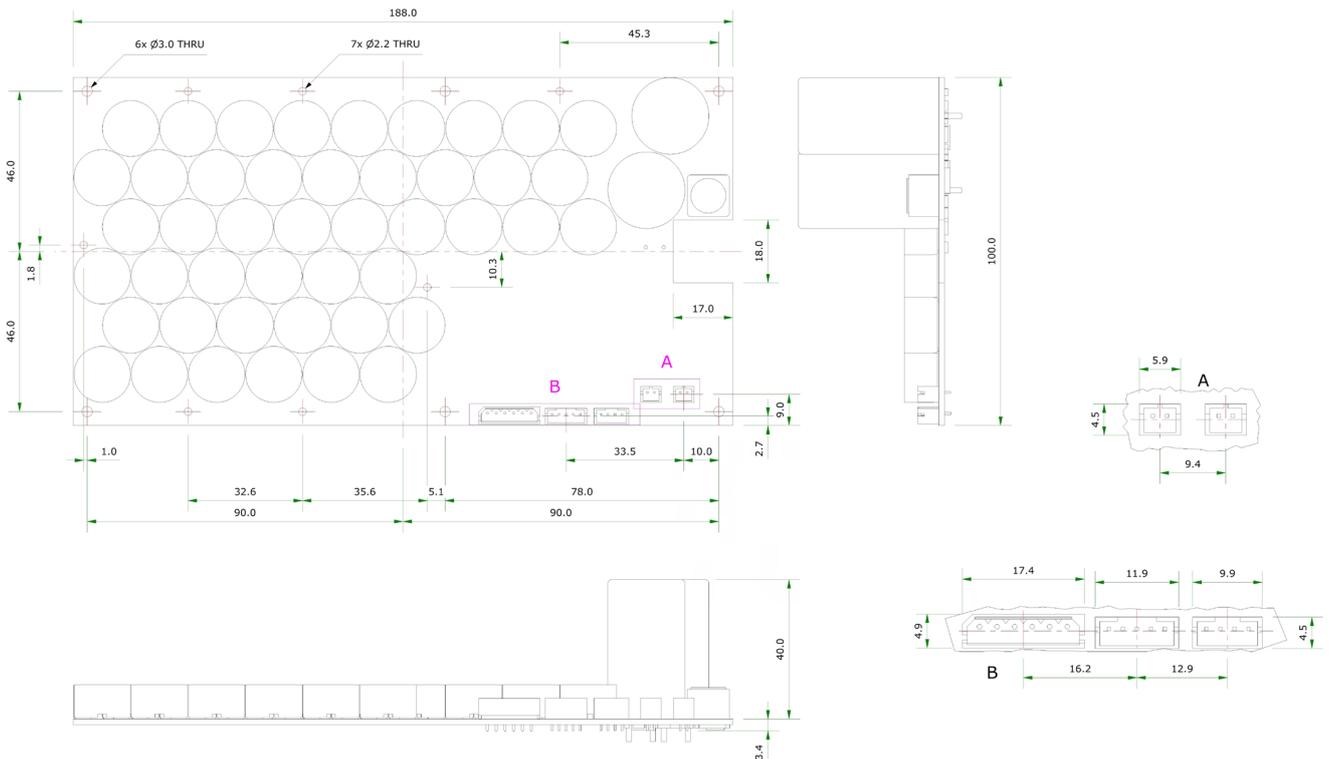
Trade register No. 17150044, VAT No. NL8112.30.946.B01

Product Dimensions

VCT6



VCT6-T20 (Board-Only)



Features	Benefits
High Intensity Pulsed Illumination	Delivering up to 0.5kW of lighting drive power, PULSESTAR VCT illuminators deliver high quality pulsed illumination. Pulsed illumination ensures the highest levels of light on-scene to illuminate fast moving objects, and provides a significant uplift in performance compared to equivalent non-pulsed illuminators.
OEM Integration	PULSESTAR VCT illuminators are specifically designed for easy OEM integration with a range of ITS systems. The VCT6-T20 (board-only variant) comes with an integral aluminium plate which can be attached to a to heat-sink.
Integrated Pulse Controller	PULSESTAR VCT illuminators are packaged in a single, compact housing. The integrated pulse controller allows the timing, height and width of the lighting pulse to be tailored for the exact needs of the application. An ethernet-based communication interface and GUI makes installation, operation and maintenance both safer and easier.
Camera Sync	A trigger input allows the illumination to be pulsed in synchronisation with the camera shutter to deliver maximum light levels precisely when needed. The trigger output from the illuminator can be used to control the timing of the camera, or other illuminators.
Reduced Running Costs	When synced with a cameras shutter, VCT illuminators are only turned on for the duration of its 'pulse'; a fraction of the time when compared to a constant light solution. This means running cost can be significantly reduced.
Longer Life	PULSESTAR VCT illuminators can deliver a significantly longer lifetime when compared to a constant light illuminator. Pulsing an LED illuminator can increase the operational life of the LEDs (lifetime is governed by the average operating temperature of the LED, not the number of times it is switched on and off).
Choice of Wavelengths	The VCT illuminators are available in a range of wavelengths, including 850nm, White-Light, and others on request. A range of beam patterns are also available which allows VCT illuminators to be tailored towards a wide range of applications.

Technical Specifications

Illuminator

Model	VCT6	VCT6-T20
Lighting Drive Power (Pulsed)	0.5kW	
Consumption (Average)	15W	
Number of LEDs	45	
Input	12-24V DC	
LED Type	Platinum Elite twin-core SMT LEDs	
Illumination Angle	14° or 28 ° (other angles available on request)	
Beam Shape	Circular	
Maximum Pulse Width	2ms	
Maximum Trigger Frequency	10kHz	
Maximum Duty Cycle at 100% Intensity	3%	
Trigger Input	5V to 24V opto-isolated	
Trigger Output	Synchronised to strobing, (24V, 50mA opto-isolated)	
Control / Communication	Ethernet	
Wavelength	850nm (others available on request)	
IP Rating	IP65	IP20
Temperature Range	-20°C to +55°C	
Colour	Black	N/A
Weight	VCT6 1.0kg	VCT6-T20 0.4kg
Dimensions	230mm (w) 117mm (h) 60.5mm (d)	188mm (w) 100mm (h) 43.4mm (d)
Front Cover	Clear Polycarbonate	N/A
Country of Manufacture	United Kingdom	

Product Codes

Part Codes	Description
VCT6-850-14	VCT 6, 850nm with 14°x14° beam angles (other wavelengths and beam angles available)
VCT6-850-28	VCT 6, 850nm with 28°x28° beam angles (other wavelengths and beam angles available)
VCT6-850-14-T20	VCT 6, 850nm with 14°x14° beam angles (other wavelengths and beam angles available) T20 board only version.
VCT6-850-28-T20	VCT 6, 850nm with 28°x28° beam angles (other wavelengths and beam angles available) T20 board only version.