



PREAMBLE

This Technical User Guide contains warnings and guidance for correct and safe operation of the product. These instructions must be followed at all times. TPL Vision will not be held responsible for problems caused by using the product contrary to these instructions and the Warranty will be deemed invalid.

















UNPACKING

This product is packed at the factory using suitable materials for safe transport. To open the package, do not use any cutting blade to avoid damaging the product(s). Please use the delivered accessories if needed. (Do not use any other products or equivalents to replace the delivered accessories).

In the event of damage occurring during shipping, it must be reported to the carrier at time of delivery (including noting the damage in writing on the delivery documents). It is also your responsibility to notify TPL Vision in writing of the damage within 24 hours of receipt of the package. If these instructions are not followed, TPL Vision reserves the right not to accept requests for return and exchange of damaged products.

RISK CLASS

The applicable Standard EN-62471 classifies LED Lighting into 4 classes according to their degree of hazard severity. The table below summarises the risks associated with our standard products.

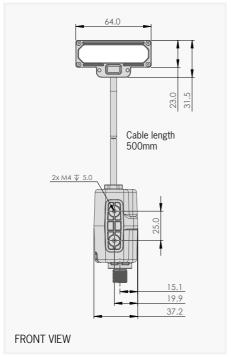
Colour	Class	Risk
Green 525 nm, Red 630 nm, IR 850 nm	0	none
White WHI, Blue 470 nm	1	low

TPL Vision can provide guidance notes to minimise photo-biological risks, including the nominal minimum operating distance. Please contact TPL Vision through your usual representative for this information.

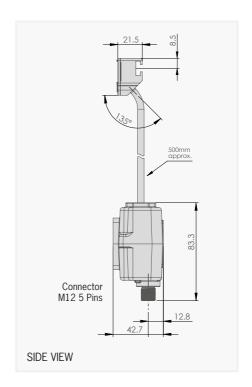
In all cases, TPL Vision recommends the use of **the protection glasses** that are listed in its catalog.



DIMENSIONS



	-	37	_
FRONT VIEW			
	Length (mm)	Width (mm)	Thickness (mm)
M-TBAR	64	31.5	21.5



	Length (mm)	Width (mm)	Thickness (mm)
Power supply	83.3	37.2	42.7

LED INDICATORS

The power supply is equipped with 2 LED indicators:

- N°1: indicates that the light is powered but the LEDs are not turned ON with this indicator alone.
- N°2: indicates that the LEDs are switched on.





















■ M-TBAR FIXING



During the set up, the light has to be switched off and unplugged. Please use M4 screws and use the slot on the back of the light. Alternatively, you can use the M2 threads. Mount the power supply box using the integrated M4 threads.

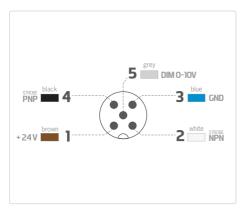
ANGLE CHANGER FIXING



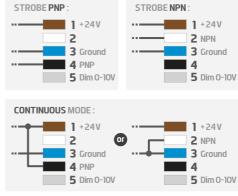
Use the 2 screws supplied to secure Angle Changer in place (recommended for final light installation).

I CONNECTION

M12 Connector 5 male points



EMC IMMUNITY CONNECTIONS: for greater EMC immunity when using the light under Strobe operation, configure the signal connections as illustrated here. For Dimming, the Pin (5) should be connected to a voltage between OV and 10V to ensure light output is correctly configured.







CONTROL

The product is optimised for a lifespan >50kh in a 40°C (104°F) atmosphere. In strobe mode, the strobing time is directly equivalent to the time during which the strobe entry is activated.

STROBE PNP & NPN:

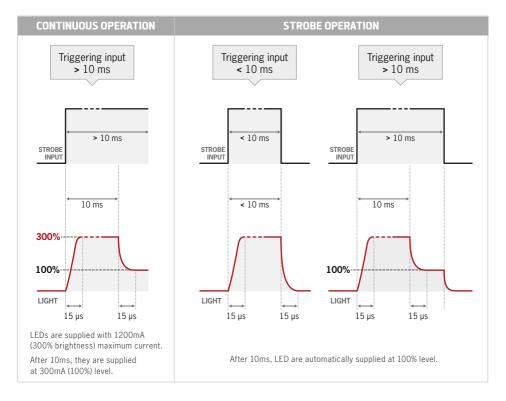
 \blacksquare PNP : from 5 to 24V for 100% ON. From 0 to 1V for 100% OFF.

■ NPN: less than 1V for 100% ON. Above 2V for 100% OFF. Max 20V.

Brightness	D max	t max	f max
30% to 100%	N/A	CW	N/A
100% to 300%	10%	10 ms	750Hz

CW: Continuous Working

D : Duty Cycle t : pulse duration f : frequency



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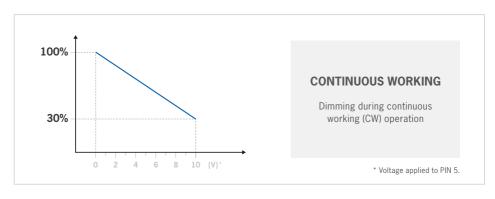


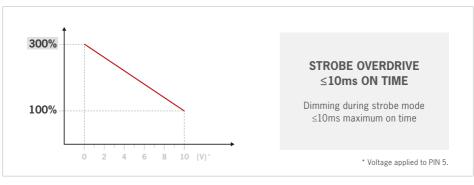






■ DIMMING O-10V ON PIN 5









POWER SUPPLY

- POWER SUPPLI	M-TBAR
Consumption CW mode	0.3A
Consumption Strobe mode*	1.2A
Min. functioning Voltage	20V in the light input
Normal functioning Voltage	24V in the light input (±10%)
Max. functioning Voltage	30V in the light input
Max. consumption Strobe and Dimming signal	10mA

^{*}Strobed with 10% duty cycle - this is the peak consumption. You must use a power supply with this rating.

■ USER SAFETY

Do not modify or dismantle all or part of the product.



Respect the power supply voltages and the connection terminals.

Ensure power supply is switched off whilst connecting product and turn on only once product is fully connected. Failure to do this may damage the product and invalidate the Warranty

Do not stare at the lighting source directly.

Follow advice below for installation to minimise operator exposure to the light source.

INSTALLATION GUIDANCE:

- Forbid or limit the direct access to the lighting source (exposure into the radiation axis).
- Establish a security perimeter to prevent the operators from approaching the lighting source beyond the recommendations of the manufacturer.
- If the workstation permits it, introduce a filter that will stop the lighting radiation under a fixed or adjustable
 frame between the source and the operator. When these measures cannot be implemented, supply the operators with glasses (class 4) available from TPL Vision.

It is the responsibility of the persons installing this product to ensure that all means possible (such as those stated above) have been implemented to reduce exposure of the machine operators to the light emitted from this product.



High ambient temperatures and insufficient heat dissipation can lead to hot housing surfaces. Do not touch the light during operation. Keep a minimum distance of 20 mm between the light and thermally insulating surfaces or mount the light on a thermally conductive surface.















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EQUIPMENT MAINTENANCE

CLEANING (when the product is switched off)

Please use a soft and dry cloth. Do not use any abrasive material. Do not use any cleaning solvent or aggressive chemical product. TPL Vision recommends to use isopropyl alcohol.

OPERATING CONDITIONS

-10° to +40°C (14° to +104°F) / 80% of humidity without condensation. No thermal shock (max temperature variation: 10°C (18°F) in 24h). Not for outdoor use.

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