



PREAMBLE

This notice includes all the advice and warnings that enables a correct set up and a safe use of the product. TPL Vision can not be responsible for the bad use of the notice. If so, TPL Vision will cancel the guarantee's effects.



UNPACKING

Products are packed in our factory, using suitable materials for a safe transport through the usual means of transportation, in France and internationally. However, a damaged package must be reported to the carrier on delivery. Hand-written reservations must be indicated on the delivery order. Moreover, please send a letter or an email to TPL Vision as soon as possible (up to 24 hours after the delivery). If the transportation damage has not been stipulated on the delivery order and reported to TPL Vision in time, the package will not be taken back nor exchanged. 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).

RISK CLASS

The EN-62471 norm about lighting fluxes enables the classification of led lightings in 4 distinct groups, according to their hazardousness degree. Please find below an indicative table, recapitulating the classes of risk for our standard products.

Colour	Class	Risk
White WHI, Green 525 nm, Red 630 nm	0	none
UV 405 nm, Blue 470 nm, IR 850 nm	1	low
UV 365 nm	2	moderate
UV 385 nm	3	high

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

For more information about photo-biological risks, do not hesitate to contact us.

TPL Vision can provide guidance notes about the **nominal distance to minimize eye risks**.



BEWARE to the infrared light, invisible to the eyes.

To know if the light is on, please refer to the LED indicators.

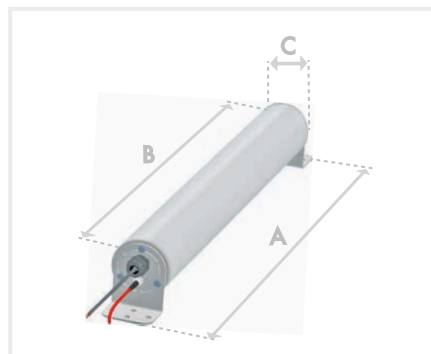


BACKLIGHT BLBAR FOOD USER GUIDE

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DIMENSIONS

	Total length (mm)	Bar length (mm)	Diameter (mm)
	A	B	C
BLBAR5	306	153	80
BLBAR10	431	278	80
BLBAR15	556	403	80
BLBAR20	681	528	80
BLBAR25	806	653	80
BLBAR30	931	778	80
BLBAR35	1056	903	80
BLBAR40	1181	1028	80
BLBAR45	1306	1153	80
BLBAR50	1431	1278	80



RECOMMENDATIONS

1 - Temperature conditioning

Before setting up the bar on the machine, please **store the bar for 24 hours** in its **packaging**, and at the expected operating temperature.

IP69K bars from TPL Vision come with a vent which balance both temperature and moisture between the inside and the outside, preventing moisture to condensate.

Keeping the bar in its packaging will help **slow down the process of decreasing the bar temperature** down to the operating one.

If you can't leave the bar in its packaging, then you need to connect the bar to the power supply (Ground and 24VDC) as soon as the bar enter the cold room so fans inside the bar will turn on and help with the balance process. Wait for 24h before turning on the led (using NPN or PNP wires).

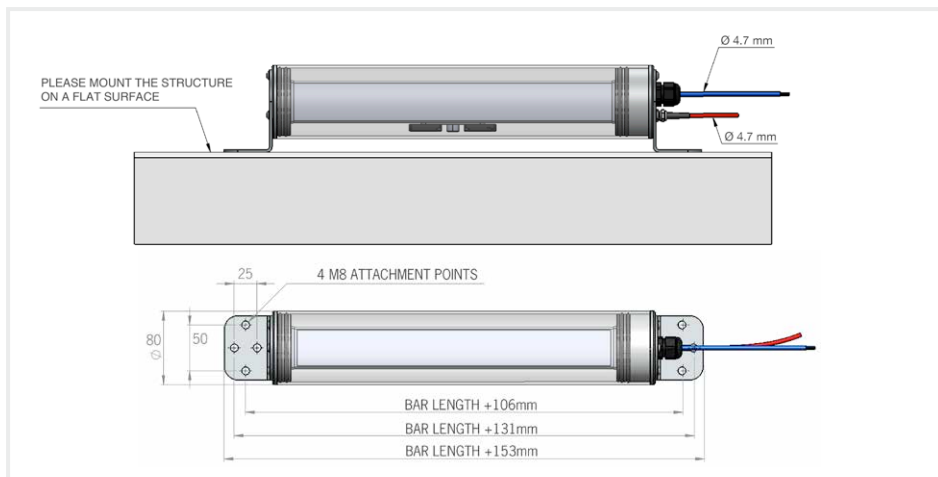


2 - Use

- **Always** let the bar **connected** to the power supply with power on,
- unless it is used in continuous mode, **do not put** the bar in a place where the **temperature** may **vary rapidly** (close to the door of a refrigerator at -20°C),
- **do not wash** the product with **warm water** (max 80°C) **more than 1 minute**, to avoid any condensation phenomenon,
- if the product is working in **continuous mode**, **do not turn it off** during the cleaning,
- for a product used in **strobe mode**, the IP69K temperature will remain close to the ambient temperature. When cleaning the product with warm water, it will create a thermal chock and moisture may condensate as the vent won't have the time to balance pressures and moisture. In order to avoid it, please follow the step by step procedure below:
 - turn on the LED **continuously** for **1h**;
 - wash down the light;
 - turn off the LED, **wait for another hour – never turn off fans** during the process.



FIXING



BEWARE: if you don't want to use the brackets supplied with the product on a flat surface, here are our recommendations.

1 - You can use clamps. Please place them on the o-ring of the tube. Do not press it, to avoid any pressure or fissure.



2 - You can also mount the tube with your own brackets. Then, you have to insert rubber blocks, to avoid any pressure on the tube.



In all cases, if the mounting recommendations are not followed, TPL Vision can decide to cancel the warranty in case of damage.

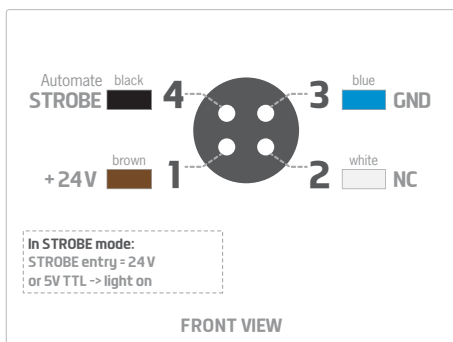


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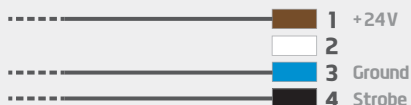
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■ CONNECTION OF THE LIGHT

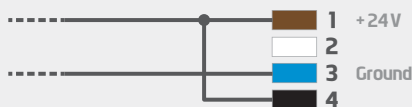
Cable 4 wires



STROBE MODE CONNECTION



CONTINUOUS MODE CONNECTION



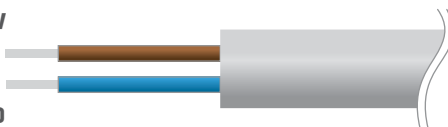
■ CONNECTION OF THE TUBE

To prevent any steam appearance inside the product, you need to power the ventilation system. The fan has to work 24 hours a day.

Ventilation connection

Brown wire : + 24 V

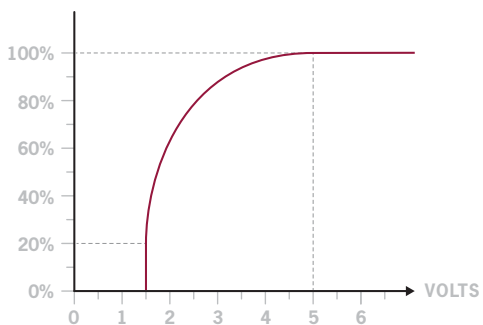
Blue wire : GND





■ CONTROL

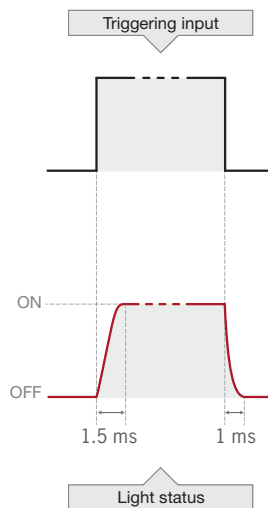
DIMMING



Potential dimming between 1.5 & 5 Volts.

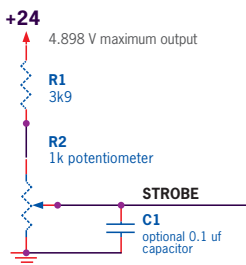
Above 5 Volts, the product reaches 100% of its lighting power.

STROBE MODE

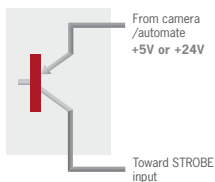


Power supply : 24V $\pm 10\%$
Strobe input : 24V or 5V TTL

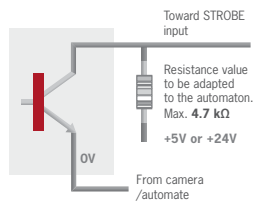
EXTERNAL DIMMING CONFIGURATION



PNP-LIKE AUTOMATON OUTPUT



NPN-LIKE AUTOMATON OUTPUT





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■ USER SECURITY

**Please respect the power supply voltages and the connection terminals.
Do not modify or dismantle all or part of the product.
Do not connect when power is on.
Do not watch the lighting source directly, and follow the advice below :**



- If the workstation enables it, interpose a filter that will stop the lighting radiation under fixed or adjustable frame between the source and the operator.
- When these measures cannot be implemented, supply the operators with glasses (class 4) available for sale at TPL Vision, or with a dedicated protective mask, that will stop the lighting radiation.
- Forbid or limit the direct access to the lighting source (exposure into the radiation axis).
- Establish a security perimeter so as to prevent the operators from approaching the lighting source beyond the recommendations of the manufacturer, as for eye irritation is concerned.
- In any case, ensure that the chosen means properly reduce the exposition quantities (features of screens or glasses to be chosen, according to the wavelengths that the operators are exposed to).

■ TUBE CLEANING

List of compliant detergents:

CHEMICAL PRODUCTS, SOLVENTS, ETC.

A - General

- Arsenic acid
- Butyric acid, up to 5%
- Citric acid, up to 20%
- Hydrochloric acid
- Hydrofluoric acid, up to 20%
- Formic acid, up to 2%
- Lactic acid, up to 20%
- Nitric acid, up to 40%
- Oxalic acid
- Phosphoric acid, up to 50%
- Picric acid, 1% in water
- Acid for accumulators
- Sulfurous acid, up to 5%
- Sulfuric acid, up to 30%
- Stearic acid
- Calculous acid, up to 50%
- Uric acid, up to 20%
- Alum
- Arsenic
- Benzene
- Potassium dichromate
- Sodium bisulfite
- Sodium carbonate
- Potassium carbonate
- Sodium chlorate
- Aluminium chloride
- Calcium chloride
- Stannous tin chloride
- Magnesium chloride
- Potassium chloride
- Sodium chloride
- Sulfuryl chloride
- Ferrous chloride
- Ferric chloride
- Potassium cyanide
- Cyclohexane
- Diethylene glycol
- Oxygenated water, up to 30%
- Soapy water
- Turpentine spirit
- Petroleum ether
- Glycerin
- Glycol
- Heptane
- Hexane
- Calcium hydrochlorite
- Sodium hydrochlorite
- Iodine, metallic
- Lime milk
- Potash
- Lye at 30%
- Mercury
- Monobromonaphtalene
- Silver nitrate
- Potassium nitrate
- Aluminium oxalate
- Perchlorethylene
- Potassium permanganate
- Petroleum
- Propylene
- Soda



- Sulfur
- Aluminium sulphate
- Ammonium sulphate
- Copper sulphate
- Magnesium sulphate
- Manganese sulphate
- Nickel sulphate
- Sodium sulphate
- Solid zinc sulphate
- Watery zinc sulphate
- Sodium sulphide
- Triethylamine
- White Spirit
- Green vitriol

B - Brand

- CLOPHEN® T55, A 60
- PALATINOL® K
- SANGAJOL®
- TERAPIN®

DISINFECTANT PRODUCTS

A - General

- Lime chloride
- Oxygenated water, up to 40%
- Lugol's solution
- Sublimation

B - Brand

- BAKTOLAN®, up to 5%
- CHINOSOL®, up to 1%
- CHLORAMIN®, solution
- ELMOCID® GAMMA, up to 2%
- MEFAROL®, up to 1%
- MERCKOJOD®, up to 1%
- MERFEN®
- PERHYDROL®
- PERODIN®
- SAGROTAN®, up to 2%
- ZEPHIROL®, up to 5%

CLEANING PRODUCT

A - General

- Acids, see CHEMICAL PRODUCTS
- Alcohol, up to 30%
- Benzene
- Bleach
- Soapy water
- Turpentine spirit
- Petroleum ether
- Detergents, see CHEMICAL PRODUCTS
- Petroleum
- Soda
- Ammoniacal solution
- White Spirit

B - Brand

- AJAX®
- BFK-nettoyant®
- BÖTTCHERIN®
- BURMAT®
- BURNUS®
- CILLIT-GRÜN®
- DOR®
- DOSYL
- DOSYLAN®
- FAKO® - Polishing paste
- FAKO® - Polishing product
- FEWA®
- FRAPPIN®
- FÜLLBOX
- KUR® - antistatic and cleaning
- LAVAPLEX®
- NULL-NULL®
- PERSIL®
- PLEXIKLAR®
- PRIL®
- REI®
- SEIFIX®
- SPÜLI®
- WC-00®

■ OPERATING CONDITIONS

Not for outdoor use.



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TPL VISION
IS AN **ISO 9001**
CERTIFIED MANUFACTURER

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