

TRACKALPHA-PRO 24VDC

ENGLISH

Installation Manual



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1. Product Description

- LED Lighting Equipment suitable for medium and large-sized industrial machine tools, anodized aluminum structure with painted side caps
- Tempered satin glass front protection.
- High power LED light source.
 White homogeneous light
- Highly resistant to impacts, mechanical vibrations, and processing shavings.
- IP 67-IP69 degree of protection lamp with Viton seals
- Plug-in to 24VDC with M12 connector
- Five lengths available
- Use only with a class 2 power supply.
- Suitable for wet location
- For cabinet use only
- CAUTION: To reduce the risk of fire, do not install in a compartment smaller than 11.8 in2 (30cm2) by the length of the product.
- Cabinet use also includes under-cabinet and surface mounting use, as applicable.

On request:

- 16 ft (5 m) power cord
- TAFX02 Side-mounting brackets

2. Safety instructions

Each lighting device in the TRACKALPHA-PRO series was designed and manufactured based on state-of-the-art techniques.

It is made of well-selected, high-quality materials. It is carefully tested throughout the production process, from the raw material to packaging, following a detailed production schedule to guarantee that the product is safe and reliable.

Material damage, as well as bodily injuries, may nevertheless still occur while using it.



- This manual is part of the equipment and must always be kept.
- Please ensure that ALL instructions/information in this manual are carefully read.
- Strict compliance with the instructions provided in this manual and on the lighting equipment is required for its correct use

- Installation and use of the product are recommended only provided it is in perfect condition, and the user is well acquainted with all safety instructions.
- CCEA, the manufacturer, waives any responsibility in case of product tampering or improper use.

2.1 Proper use of the product

This lighting equipment can be installed inside machine tools, even in a wet environment.

2.2 Product safety

Electrical Risks

The improper and incorrect use of the equipment may cause bodily injuries and material damage.

- A licensed electrician must carry out all electrical connection procedures.
- Switch off the power supply before installing, maintaining, or reparation procedures.
- Ensure to connect to a 24VDC power supply unit. Please respect the polarity of electric conductors.
- Please ensure that the power supply-rated tension and frequency meet the requirements shown on the product label.

Maintenance and reparations must only be carried out by qualified electricians.

Risk of explosion

The Risk of explosion might occur upon installing and using this product for applications with a high risk of explosion. It might cause severe body injuries.

Do not install and use this product in hazardous environments (high risk of explosion).

Installation and safety

- Handle the luminaire carefully and avoid having it drop or hit even if it is still packed, which might cause body injuries and material damage.
- Ensure the original mounting accessories are used, as available from the manufacturer.
- Set up the mounting accessories properly.
- The equipment must be correctly fastened using the proper screws according to the application, place, and surface where the product is being mounted.
- Ensure that the fastenings are regularly checked.

The danger of dazzling glare due to a white light source

Avoid staring directly at the light source, as it may cause a temporary reduction of vision. Irritation, aches, damage, or accidents may as well occur.

- Avoid staring directly at the light source.
- The device must be adjusted to avoid the light flowing directly towards the eyes.

Inappropriate spare parts cause danger.

Using inappropriate spare parts may cause bodily injuries and material damage.

Do not use spare parts that the manufacturer has not approved.

Damage caused by the presence of laser beams.

The TRACKALPHA-PRO LED lighting equipment **is not** allowed when a high-power laser cutting system operates since it may damage the LED source.

Danger due to high temperatures

Installing and using equipment in all the environments where the existing temperature remarkably exceeds the foreseen operating temperature will considerably reduce LED lifetime while damaging the built-in electronic components.

Risk levels ENGLISH

- Do not use this Device in environments where the device's operating temperature is exceeded.
- Operating temperature -4/+113°F (-20/+45°C)
- Avoid direct solar radiation.

NOTICE

Danger due to repairs

Disassembling or repairing the product without any appropriate technical /electrical knowledge may cause damage to persons and objects.

Do not try to repair or disassemble the equipment. Please apply to qualified technicians for any issues. Any product tampering or modifications not approved by the manufacturer will null and void the warranty.

2.3 Damage risk levels



Dangers where noncompliance may <u>immediately</u> cause severe injuries and eventually lead to death.



DANGER

Dangers where failure to satisfy requirements <u>may</u> lead to severe injuries and even death.



WARNING

Dangers where failure to satisfy requirements <u>may</u> lead to injuries.



ATTENTION

Dangers where failure to satisfy requirements <u>may</u> cause damage to objects.

3. Available versions

Please refer to the table listing all the lighting equipment to identify the version you need and its main features to install and use the lighting equipment correctly and efficiently.

Note: The product code is on the brand name label stuck on the product's backside.

- Find the product code printed on the brand name label and see if you find it on the table.
- Compare the codes and see if you can identify the same model on the table hereunder.
- The code printed on the brand name label shows the device's week and year of production.

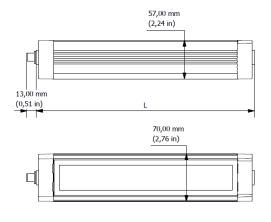
Note: Do not discard the product labeling, which may be requested in case of a complaint.

| Version with M12 Connector T Coding | | | | | | | |
|-------------------------------------|--------------------|----------|------|------------|-------------|-------------------|--------------------|
| Model | Length | Opt | ics | Power | Power Usage | E Connection | Weight |
| TA0221S02W | 12.64 in (321 mm) | Diffuser | 120° | 13 W | 22-28 Vdc | M12-T 4P Male | 2.40 lb (1.10 kg) |
| TA0321S02W | 17.36 in (441 mm) | Diffuser | 120° | 19.5 W | 22-28 Vdc | M12-T 4P Male | 3.39 lb (1.55 kg) |
| TA0521S02W | 26.81 in (681 mm) | Diffuser | 120° | 32.5 W | 22-28 Vdc | M12-T 4P Male | 5.27 lb (2.40 kg) |
| TA0721S02W | 36.26 in (921 mm) | Diffuser | 120° | 45.5 W | 22-28 Vdc | M12-T 4P Male | 7.03 lb (3.20 kg) |
| TA1021S02W | 50.43 in (1281 mm) | Diffuser | 120° | 65 W | 22-28 Vdc | M12-T 4P Male | 10.00 lb (4.55 kg) |
| | | | Vers | ion with c | able | | |
| TA0221S03W | 12.64 in (321 mm) | Diffuser | 120° | 13 W | 22-28 Vdc | CABLE 10 ft (3mt) | 2.65 lb (1.20 kg) |
| TA0321S03W | 17.36 in (441 mm) | Diffuser | 120° | 19.5 W | 22-28 Vdc | CABLE 10 ft (3mt) | 3.64 lb (1.65 kg) |
| TA0521S03W | 26.81 in (681 mm) | Diffuser | 120° | 32.5 W | 22-28 Vdc | CABLE 10 ft (3mt) | 5.62 lb (2.55 kg) |
| TA0721S03W | 36.26 in (921 mm) | Diffuser | 120° | 45.5 W | 22-28 Vdc | CABLE 10 ft (3mt) | 7.28 lb (3.30 kg) |
| TA1021S03W | 50.43 in (1281 mm) | Diffuser | 120° | 65 W | 22-28 Vdc | CABLE 10 ft (3mt) | 10.25 lb (4.65 kg) |

Installation ENGLISH

4. installation guide.

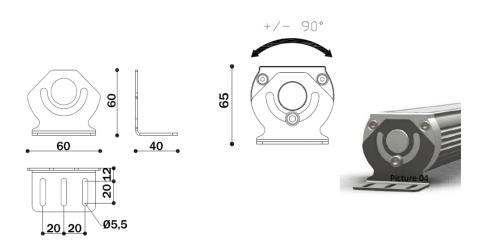
4.1 Product size and accessories



| 57,00 mm (2,24 in) | | Picture 03 |
|--------------------|-----------------------|------------|
| | 70,00 mm (2,76 in) | |

| Model | L | |
|------------|------------------------|--|
| TA0221S02W | 321 mm (12,64 in) | |
| TA0221S03W | 322 (12,0 1 11) | |
| TA0321S02W | 441 mm (17,36 in) | |
| TA0321S03W | ()== | |
| TA0521S02W | 681 mm (26,81 in) | |
| TA0521S03W | | |
| TA0721S02W | 921 mm (36,26 in) | |
| TA0721S03W | | |
| TA0821S03W | 1041 mm (40.98 in) | |
| TA1021S02W | 1281 mm (50,43 in) | |
| TA1021S03W | 1281 11111 (30,43 111) | |

4.2 Mounting accessories



TAFX02 Side mounting brackets

ENGLISH Plug in

4.3 Installation



ATTENTION

The lamp fall may cause damage to persons and objects.

- When mounting the lamp, ensure that the original fastenings you may purchase from the supplier are used.
- Make sure the mounting accessories have been correctly installed.



WARNING

Switch off the power supply before proceeding to installation.

Correct installation using only the original side-mounting brackets TAFX02.

The TRACKALPHA mounting accessories are made of:

- No.2 side fasteners of chromeplated steel with M6 screws and steel handle washers
- Direction of the luminous flux adjustable at +/- 90°.

Installation with TAFX02 sidemounting brackets

Hook the two side brackets on the lamp sides using the M6.

TCEI M6 screw + washer



Picture 05

Bore the fixing holes on the machine surface - Side mounting pitch for side installation:

| | _ | | |
|------------|------------------------|--|--|
| TA0221S02W | ~ 358 mm (14,1 in) | | |
| TA0221S03W | 338 11111 (14,1 111) | | |
| TA0321S02W | ~ 478 mm (18,82 in) | | |
| TA0321S03W | 478 11111 (16,82 111) | | |
| TA0521S02W | ~ 718 mm (28,27 in) | | |
| TA0521S03W | 71811111 (20,27 111) | | |
| TA0721S02W | ~ 958 mm (37,72 in) | | |
| TA0721S03W | 938 11111 (37,72 111) | | |
| TA0821S03W | ~1077 mm (42.40 in) | | |
| TA1021S02W | ~ 1318 mm (51,89 in) | | |
| TA1021S03W | 1310 11111 (31,89 111) | | |

- After the fixing holes have been made, fix the lamp to the machine structure using M5 screws of at least 8 mm. length (2 screws for each fastener). The plate where the light will be mounted has to be at least 2 mm Thick.
- The lamp position can be adjusted by rotating the same concerning the standing surface once the M6 screws on each side have been loosened. Once the

Technical data ENGLISH

correct position is found, tighten both screws (see picture hereunder)

Damaged or broken lamp

FIG.06

- When side mounting the lamp, ensure never ultimately to loosen the M6 screws allowing for lamp rotation, to avoid having the lamp fall.
- The side brackets, as well as the screws tightening, must be checked regularly.

NOTE: The fastening parts for this lamp are available as accessories. Please For further details, visit our website: www.ccealights-usa.com

5. Plug-in

NOTICE

Material damage caused by liquid leakage.

- Use a connector securing the same protection rate as the lamp, if not greater.
- Ensure that the power cord is correctly plugged into the female connector.
 - 5.1 Low voltage plug-in with M12 connector

NOTICE

Wrong wiring may cause damage to the lamp.

- Qualified electricians must carry out all electrical connections.
- Please respect the polarity of the connectors
- Always use the power cord supplied with the lamp.
- Supply wiring: located in class 2, any wiring, rated min. 20 AWG, min. 50V, min. 90°C.

Picture 07





NOTICE

M12 4P Male connector T Coding (on the lamp)

PIN connection

- 1 DC + (24VDC)
- 2 Not connected
- 3 DC (0VDC)
- 4 Not connected

5.2 Pre-assembled Power Cord for M12 Lighting

DESCRIPTION

Cod. **M12TFC5** M12 4 poles T Coding, 60VDC connector female with pre-assembled UL PVC Cable, 3G1, 5mmq. Cross-section. The product code includes the above.

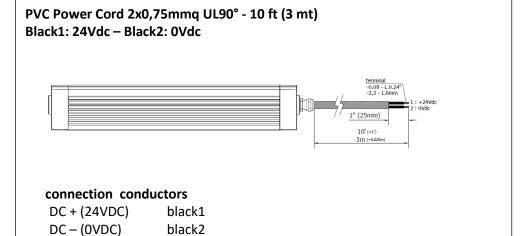




Picture 08

| PIN/ | connection | conductor |
|------|---------------|-----------|
| 1 | DC + (24VDC) | black 1 |
| 2 | Not connected | |
| 3 | DC - (0VDC) | black 2 |
| 4 | Not connected | |
| | | |

5.3 Integrated Power Cord



6. Switch on -Switch off

- The lamp is not equipped with an independent switchon-switch-off system.
- The lamp will switch on when plugged in and off when the power is off.

7. Troubleshooting

In case the lamp doesn't turn on:

- Check that the lamp is correctly wired to the supply voltage.
- Check that polarity wiring has been carried out correctly.

Please contact CCEA's technical support service if the lamp is defective.

CCEA Technical Support Service Phone: +1 623-526-9599 Techsupport@ccealights-usa.com www.ccealights-usa.com

8. Replacing the LED light source

The outstanding lifetime of the LED light source, over 60.000 hours, makes it unnecessary to replace the PCB LED if the lamp is installed correctly and used following the instructions in this manual. Please get in touch with CCEA's Technical Support service - or your Reseller – in case the replacement of the PCB LED is

needed for any defects not covered by the warranty.

9. Product maintenance and cleaning



WARNING

Switch off the power supply before installing, maintaining, or reparation procedures.

This product is maintenance-free.

- Lamp cleaning is only done after the lights are switched off and the surfaces have cooled down.
- Carefully rinse the lamp surface with a mild cleanser and then wipe it off using a soft cloth to avoid scoring it.

NOTICE

All material damage caused by liquid leakage may damage the lamp.

If the lamp works in environments where lubricants or coolers are present, all cleaning operations should be carried out at the end of the working cycle.

10. Repairs

NOTICE

All material damage caused by poorly executed repairs may damage the lamp.

- All repairs must be carried out by the manufacturer or by qualified technicians.
- Only use spare parts have been approved by the manufacturer.

11. Warranty

Terms of warranty

CCEA ensures that any control procedures or repairs are carried out exclusively at/by the CCEA Technical Service department or any CCEA'S official dealer and are covered throughout the entire product's lifetime. Given the above, preserve the product label and case to be submitted if any repair operations are needed.

All repair and spare parts costs will be notified after the defects have been examined.

The warranty does not cover:

- Any transport, packaging, or shipping costs.
- Any damages or deterioration caused by:
- Installation and operation are carried out in different ways.

- Any unauthorized repairs or attempts to repair the product.
- Equipment operation under environmental conditions other than the user manual.
- Liquid leaks inside the lamp.
- Failure to follow the safety precautions related to transport and shipping the product back for repair (please make sure to have it shipped back in its original case).

Period of warranty

The warranty period covers 24 months, starting from the delivery date. CCEA guarantees that the products have no manufacturing defects or malfunctioning.

12. Product disposal (EU Regulations)

All the electrical and electronic equipment (WEEE) must be managed with selective waste sorting and cannot be disposed of as municipal waste, as provided in Directive 2012/19/UE.

Given this equipment above, all its components, subsystems, and consumables, which are an integral part of the product, must be conveyed to the local collection facilities for them to be disposed of by the current legislation.

Technical data **ENGLISH**

Please apply to the council offices of your residence to find out where the collection facilities are located.



13. Technical data

NOTE: Please refer to the data printed on the label or engraved on the lamp.

| Power supply | 22 ÷ 28 VDC |
|--------------|---------------|
| Power input | 13-19,5-32,5- |
| | 15 5-65W |

(see label)

IEC Class Ш

Degree of protection IP67 compatible with

NEMA Type 12

LFD driver I.D.S. (Integrated System

Driver)

Light color temperature 5000K CRI 80

Operating temperature -4/+ 113°F

-20/+ 45 °C

For any further information please refer to the

table at page 7

ENGLISH Symbol keys

14. Symbol keys

| C€ | CE Conformity marking |
|--|-----------------------------------|
| (II) | Protection class III device |
| IP67 | Degree of protection IP67 |
| •••••••••••••••••••••••••••••••••••••• | UL 2108 STANDARD FOR LOW |
| c Su s | VOLTAGE LIGHTING SYSTEM – Edition |
| | 2 – Revision Date 2017/05/30 |
| | CSA C22.2 NO.9.0-96 LUMINAIRES – |
| | Edition 1 – Revision Date |
| | 1998/07/01. Reaff. 2016 |
| ^ | |



WARNING: Cancer and Reproductive Harm www.P65Warnings.ca.gov

15. Declaration of Conformity

CCEA Technical Lighting Corp. at this moment declares that the light equipment named TRACKALPHA – to which the present Declaration of Conformity is related - was manufactured by CCEA SRL under the following Directives: 2014/35/UE on Low Voltage Equipment Safety and the Directive of Electromagnetic Compatibility 89/336/CEE (EMC) 2014/30/UE. The unit complies with the following regulations: Allowing regulations:

Directives:

Certification

Machinery Directive 2006/42/EC Low Voltage Directive 2014/35/EU EMC Directive 2014/30/EU



In Compliance with UL 2108 STANDARD FOR LOW VOLTAGE LIGHTING SYSTEM – Edition 2 – Revision Date 2017/05/30 CSA C22.2 NO.9.0-96 LUMINAIRES – Edition 1 – Revision Date 1998/07/01. Reaff. 2016

Harmonizea standards

CEI EN 60598-1 "Lighting equipment. Part 1: General instructions and tests" CEI EN 60598-2-4 "Lighting equipment part 2: particular requirements – part 4 Portable general-purpose luminaries".
CEI EN 62031 "LED modules for general lighting. Safety specifications".
CEI EN 62384 "DC or AC supplied electronic control gear for LED modules. Performance requirements".

This standard product is manufactured following a detailed production schedule, ensuring that inspections and destructive tests are carried out to deliver safe, functional, and sustainable development.

C.C.E.A. SRL disclaims any responsibility resulting from tampering and improper device use.

| Date: | |
|-----------------------|--|
| Week of production: _ | |
| Product code: | |
| | |

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Data.