TRACKALPHA PRO Series

ENGLISH

230 Vac



Installation Manual

Table of contents

1. Product description..... 3
2. Safety Warnings 4
   2.1 Proper use 4
   2.2 Product safety 4
   2.3 Risk levels..... 6
3. Available versions..... 7
4. Guide to installation 8
   4.1 Product sizes 8
   4.2 Mounting accessories..... 8
   4.3 Installation 9
5. Plug-in 10
   5.1 Plug-in with M12 connector..... 11
   5.2 Power cord 11
   5.3 Integrated Power Cord 11
6. Switch on-Switch off 12
7. Problem solving 12
8. Light source replacement 12
9. Product maintenance and cleaning 12
10. Repairs..... 13
11. Warranty 13
12. Product Disposal 14
13. Technical data... 14
14. Meaning of symbol keys 15
15. Declaration of conformity..... 16

1. Product Description

- LED Lighting equipment suitable for medium and large-size industrial machine tools
- Anodized aluminum frame with painted side caps
- Tempered satin glass front protection
- High power LED light source
- White homogeneous luminous flux
- Highly resistant to impacts, mechanical vibrations and metal shavings
- IP 67 (connector) / IP67-IP69 (cable) degree of protection with Viton seals
- Plug-in 230VAC with M12 connector
- Three lengths available
- Suitable for wet work environments
- CAUTION: To reduce the risk of fire, do not install in a compartment smaller than 30cm by length of product.
- Cabinet use also includes under-cabinet and surface mounting use, as applicable.

On request:

- 5 m power cord
- TAFX02 Side-mounting brackets
- TACLIP rear clips

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 through to packaging, following a detailed production schedule so as to guarantee that the product is safe and reliable
Material damages, as well as bodily injuries, may nevertheless still occur while using it.



- This manual is part of the equipment and must always be kept with it.
- Please make sure that ALL instructions/information in this manual is carefully read through.
- 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 is recommended only if it is in perfect conditions, 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 is fit for being 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 damages.

- All electrical connection procedures must be carried out by a licensed electrician.
- Switch off the power supply before any installation, maintenance or reparation procedures.
- Ensure to connect to a 230Vac 50/60Hz power supply unit.
- 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

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

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

Installation and safety

- Handle the lamp with care and avoid having it drop or being hit even if it is still packed. It might cause body injuries, as well as material damages.
- 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.

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, damages or accidents may as well occur.

- Avoid staring directly at the light source.
- The device must be adjusted so as to avoid having the light flow directed 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 the equipment in all the environments where the existing temperature remarkably exceeds the foreseen operating temperature will considerably reduce LED lifetime while damaging as well the built-in electronic components.

- **Do not** use this device in environments where the operating temperature of the device is exceeded.
- **Operating temperature -20/+45°C**
- Avoid direct solar radiation.

Danger due to repairs

Having the product disassembled or repaired without any appropriate technical /electrical knowledge may cause damages 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 having been approved by the manufacturer will null and void the warranty.

2.3 Damage risk levels

DANGER

Dangers where noncompliance may **immediately** severe injuries and eventually lead to death.

WARNING

Dangers where failure to satisfy requirements **may** lead to severe injuries and even death.

CAUTION

Dangers where failure to satisfy requirements **may** lead to injuries.

NOTICE

Dangers where failure to satisfy requirements **may** cause damages to objects.

3. Available versions

Please refer to the table hereunder listing all the lighting equipment, for you to identify the version you need and its main features, for you to have the lighting equipment correctly and efficiently installed and used.

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

- Find out the product code printed on the brand name label and see if you find it on the table hereunder;
- 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.

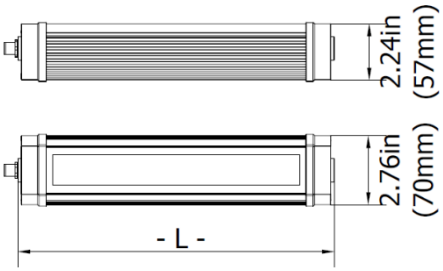
Note: Do not discard the product labeling which may be requested in case of a complaint.

Version with M12 Connector A Coding							
Model	**Length**	**Optics**		**Power**	**Power Usage**	**E Connection**	**Weight**
TA0322S01W	441 mm	Diffuser	120°	25 W	230Vac 50/60Hz	M12-A 4P Male	1.95 kg
TA0522S01W	681 mm	Diffuser	120°	42 W	230Vac 50/60Hz	M12-A 4P Male	2.75 kg
TA0822S01W	1041 mm	Diffuser	120°	65 W	230Vac 50/60Hz	M12-A 4P Male	4.10 kg
Version with cable							
TA0322S02W	441 mm	Diffuser	120°	25 W	230Vac 50/60Hz	CABLE 3mt	2.15 kg
TA0522S02W	681 mm	Diffuser	120°	42 W	230Vac 50/60Hz	CABLE 3mt	2.90 kg
TA0822S02W	1041 mm	Diffuser	120°	65 W	230Vac 50/60Hz	CABLE 3mt	4.30 kg

Table 1

4.Guide to installation

4.1 Product size and accessories



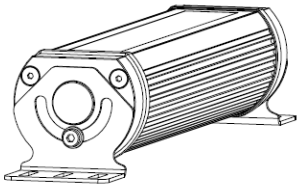
Picture 1

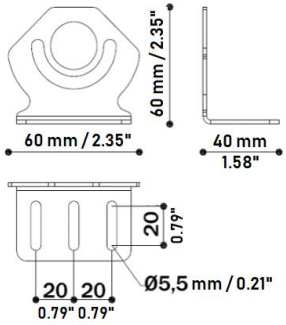
Model	L
TA0322S01W TA0322S02W	441 mm
TA0522S01W TA0522S02W	681 mm
TA0822S01W TA0822S02W	1041 mm

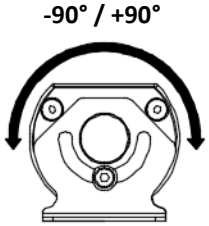
Table 2

4.2 Mounting accessories

TAFX02, Kit- Stein-steel side brackets

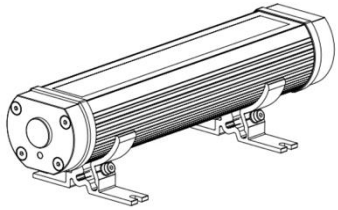


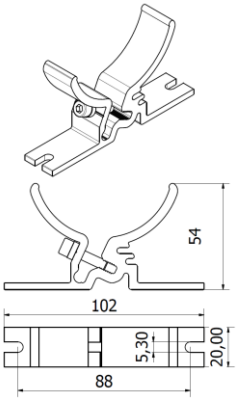


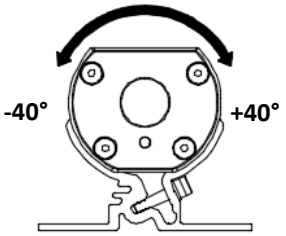


Picture 2

TACLIP Kit – Aluminum clips, rear mounting







Picture 3

4.3 Installation

CAUTION

The lamp fall-down may cause damage to persons and objects

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

4.4 Correct installation using the original side-mounting brackets TAFX02

WARNING

Switch off power supply before proceeding to installation.

The TAFX02 TRACKALPHA side mounting accessories are made of:

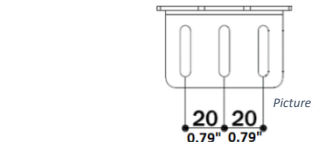
- No.2 stainless-steel “L” brackets
- No. 2 M6 screws
- No. 2 washers
- The direction of the luminous flux is adjustable up to +/- 90°.

Installation with TAFX02 side-mounting brackets

- Mount the two side brackets on the luminaire using the supplied 2 x M6 screws

WARNING

- Use 8/32 or M5 screws only.
- The mounting metal surface must be at least 2 mm thick.
- Refer to table 3 for the correct distance between center holes



Picture 4

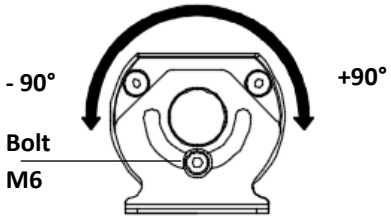
Picture 5

Model	L
TA0322S01W/02W	~ 478 mm
TA0522S01W/02W	~ 718 mm
TA0822S01W/02W	~ 1078 mm

Table 3

- Use 8/32 or M5 screws to fix the luminaire. The lengths of the screws must be chosen according to the thickness of the surface. The threaded portion sticks through the surface metal with three threads out.
- Drill 4 holes for steady mounting
- Thread the four holes
- Place the luminaire assembled with the two side brackets on the metal surface near the four previously drilled and threaded holes.

- Tighten the four bolts firmly.
- Adjust the light direction by rotating the luminaire up to 90°. Tighten the 2 M6 screws (see picture 6)



Picture 6

NOTICE

Damaged or broken lamp

- When side mounting the lamp ensure to never completely loosen the M6 screws allowing the lamp rotation, to avoid the light falling down.
- The side brackets as well as the screws tightening have to be checked on a regular basis.

NOTE: Mounting accessories are sold separately. To know more, please visit www.ccealights.com.

4.5 Correct installation using the original rear-mounting clips TACLIP

WARNING

Switch off the power supply before installation.

The TACLIP TRACKALPHA PRO rear mounting accessories are made of:

- No. 2 Anodized aluminum anodized clips
- No. 2 M5 screws
- No. 2 washers

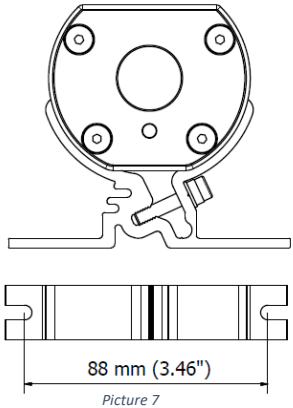
The direction of the luminous flux is adjustable up to +/- 40°.

4.5 Installation with TACLIP rear-mounting clips

- Mount the two clips on the pre-drilled metal surface

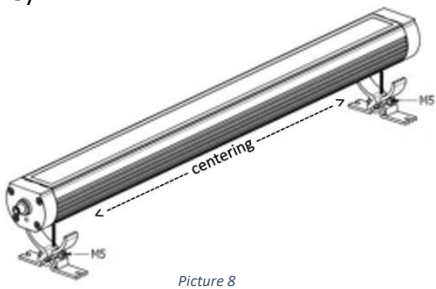
WARNING

- Use 8/32 or M5 screws only.
- The surface metal mount must be at least 2 mm thick.
- Refer to Picture 7 for the correct distance between center holes



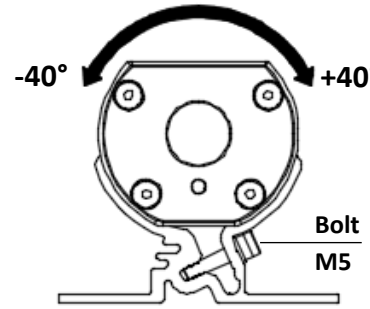
Picture 7

- Use 8/32 or M5 screws to fix the clips. Screw's length must be chosen according to the surface thickness. The threaded portion sticks through the surface metal with at least three threads out.
- Drill 4 holes for steady mounting
- Thread the four holes
- Place the rear side of the luminaire on the two clips previously mounted. (See picture 8)



Picture 8

- Make sure that it is perfectly centered
- Adjustment of the light direction by rotating the luminaire up to 40°. Tighten the 2 M5 screw (see picture 9)



Picture 9

5. Plug-in

NOTICE

Liquid leakage causes damages to the luminaire

- Use a M12 cable connector securing the same degree of protection as the luminaire, if not higher.
- Ensure that the power cord is correctly plugged into the female connector.

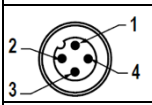
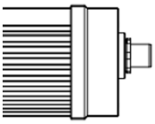
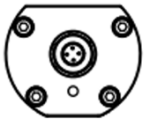
5.1 Plug-in with M12 connector

NOTICE

Wrong wiring may cause damages to the luminaire.

- Qualified electricians must carry out all electrical connections.
- Supply wiring: located in class 2, any wiring, rated min. 20 AWG, min. 50V, min. 90°C.

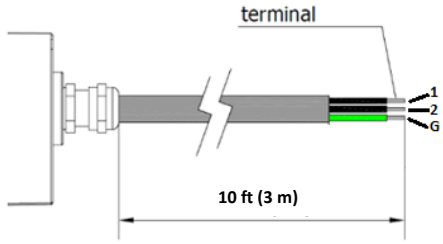
M12 4P Male connector A coding

Male	Pin	
	1	230VAC
	2	GROUND
	3	NEUTRAL 0V
	4	NOT CONNECTED
		

5.2 Pre-assembled power cord with straight female M12 connector -

Female	Pin	Conductor	
	1	Brown	230VAC
	2	White	GROUND
	3	Blue	NEUTRAL 0V
	4	Black	NOT CONNECTED
	**Code M12AFC5** M12 4 poles A coding, 250V 4A, four conductors 18AWG, 0.75mm2, IP67, PUR outer sheath.		

5.3 Integrated power cord

Wire	
Black 1	230VAC
Black 2	NEUTRAL 0V
Yellow/green	GROUND
	
Power cord PUR cable 3G0,75 grey, 3 m,-40° +80° C	

6. Switch on – off

- The luminaire is not equipped with an independent switch on – switch off button.
- The luminaire switches on when plugged in and switches off when the power is off.

7. Troubleshooting

In case the luminaire doesn't turn on:

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

Please contact
CCEA Technical support Service for defective luminaire
Phone: +39 0444 572083
Email: ccea@ccealights.com

For North America & Canada Contact:
CCEA Technical Lighting Corp.
Phone: +1-623-526-9599
Email: techsupport@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. Contact CCEA's Technical Support service - or your Reseller – if replacing 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 any installation, maintenance, or reparation procedure

This product is maintenance-free.

- Luminaire cleaning must be carried out only after it's switched off and the surfaces have cooled down.
- Carefully rinse the lamp surface with a mild cleanser and wipe off using a soft cloth to avoid scouring it.

NOTICE

All material damages 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

Bad repairs may damage the luminaire

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

11. Warranty

Terms of warranty

CCEA warrants that each new fixture of TRACKALPHA PRO manufactured and sold is free from material, workmanship, and construction defects.

THIS WARRANTY DOES NOT APPLY TO EQUIPMENT OR GOODS WHICH ARE MISUSED, ABUSED, OR DAMAGED FROM INSTALLATION OR NOT USED FOLLOWING THE SELLER'S INSTRUCTIONS. NORMAL WEAR OF EQUIPMENT OR GOODS IS NOT INCLUDED IN THIS WARRANTY.

Suppose an examination by CCEA discloses that the fixture has defective components. In that case, CCEA's obligation is limited to repair or replacement, at CCEA's option, of the defective unit(s) or its parts.

CCEA is not responsible for fixtures that have been subject to misuse, alteration, accident, or repairs not performed by CCEA. The buyer may incur additional charges for diagnostic and repair functions performed by CCEA staff.

The preceding warranty constitutes CCEA's sole liability.

Given the above, hold the product label to be submitted if any repair operations are needed.

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

The warranty does not cover:

- Transport, packaging, or shipping costs.
- 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 those specified in the user manual.
  - Liquid leakages inside the luminaire
  - Failure to follow the safety precautions related to transport and shipping the product back for repair (make sure to have it shipped back in its original case).

Period of warranty

When used under the installation manual and the technical instructions provided, it will perform to applicable specifications for 24 months from purchase.

12. Product disposal (EU Regulation)

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 the above, this equipment, all its components, sub-systems, and consumables, which are an integral part of the product, must be conveyed to the local collection facilities to dispose of them by the current legislation.
Please apply to the council offices of your place of residence to know where the collection facilities are located.



13. Technical data

Power supply	230 Vac
Power input	19.5 - 32.5 - 52 W
IEC Class	I
Degree of protection	IP67/IP67-IP69 compatible with NEMA 12
Driver	I.D.S. Integrated System Driver
Light temperature	5000 K
Chromatic Index	CRI 80
Operating temperature	-20 / +45 °C
For any further information please refer to the table at page 7	

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

14. Symbol list

CE	CE Conformity marking
	Protection class I device
IP67 IP67/IP69	Connector Cable
	**WARNING:** **Cancer and Reproductive Harm** **www.P65Warnings.ca.gov**

15. Declaration of Conformity

C.C.E.A. SRL, via Piave, 2 - 36077 Altavilla Vicentina (VI), Italy – VAT and Tax number 02374040240 declares that the luminaire named TRACKALPHA PRO – to which the present Declaration of Conformity is related - was manufactured by CCEA SRL in accordance with 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:

- **Directives**:

CE

Direttiva Macchine 2006/42/EC
Direttiva bassa tensione 2014/35/EU
Direttiva EMC 2014/30/EU

- **Harmonized 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 is a standard product manufactured following a detailed production schedule, ensuring that inspections and destructive tests were carried out to deliver a 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: _____

CCEA Srl
Via Piave 2, 36077 Altavilla Vicentina (VI), Italy
Tel. +39 0444 572083 – fax +39 0444 572337