BF1TMA

Lighting Series

Installation Manual

ENGLISH

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1. Product Description

LED gooseneck lamp suitable especially for inspection of parts and quality control manufacturing. Removable head equipped with a magnetic holding on the back. Suitable for illuminating details that are otherwise difficult to access. The coil cord can be extended up to 7 ft and allow the head to be moved in any position.

- 1 power LED source
- 3 W
- Optics 25° - 40° - 60°
- Removable and adjustable magnetic head
- Base made of PA66 GF30
- External power supply 100- 230 Vac or 24 Vdc
- Operating current 700 mA with ONLY DC stabilized electronic sources used!

2. Safety instructions

BF1TMA Lighting Series has been designed and manufactured on the basis of 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 body 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 are 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 provided 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 product

This lighting equipment is fit for being installed inside machine tools, even in a wet environment.

2.2 Product Safety

2.2.1 Electrical Risks

The improper and incorrect use of the equipment may cause body injuries and material damages.

- All electrical connection procedures must be carried out by a licensed electrician
- Switch off power supply before any installation, maintenance or reparation procedures.
- Please ensure that the power supply rated tension and frequency meets the requirements shown on the product label. Please respect cable polarity.
- Maintenance and reparations must only be carried out by qualified electricians.

2.2.3 Risk of explosion

Risk of the 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).

2.2.4 Installation and safety

- Handle the lamp with care and avoid having it drop or being hit even it is still packed, which might cause body injuries, as well as material damages.
- Ensure the original fixing accessories are used, as available from the manufacturer.
- Set up the fixing 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.

2.2.5 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.

2.2.6 Danger caused by inappropriate spare parts.

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

- **Do not** use spare parts that have not been approved by the manufacturer.

2.2.7 Damage caused by presence of laser beams

Use of the **BF1TMA Series** Led lighting equipment **is not** allowed when a high-power laser is operating, since it may damage the Led source.

2.2.8 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 - 4°/113°F (-20 / +45 °C)
- Avoid direct solar radiation.

2.2.9 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



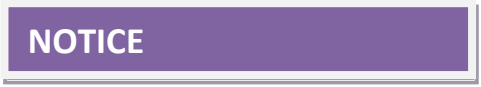
Dangers where noncompliance may **immediately** severe injuries and eventually lead to death.



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



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



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 model you need and its main features, for you to have the lighting equipment correctly and efficiently installed and used.

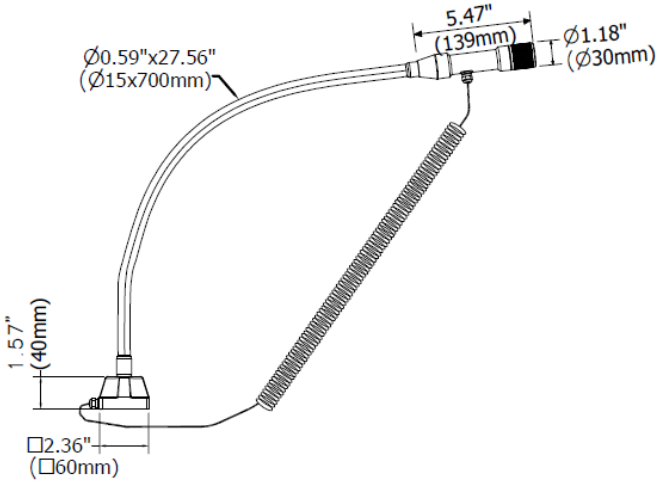
Note: The product code is found on the brand name label stuck on the product's backside.

- 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 device's week and year of production.

Version with cable						
Model	Optics		Power	Power Usage	E Connection	Weight
BT0121S01	lens	25 °	3 W	24 Vdc	CABLE 5 ft (1,5 m)	3.09 lb (1,40 kg)
BT0121S01	lens	40 °	3 W	24 Vdc	CABLE 5 ft (1,5 m)	3.09 lb (1,40 kg)
BT0121S03	lens	60 °	3 W	24 Vdc	CABLE 5 ft (1,5 m)	3.09 lb (1,40 kg)
BT0122S01	lens	25 °	3 W	100÷230 Vac	CABLE+EUROPLUG	3.09 lb (1,40 kg)
BT0122S02	lens	40 °	3 W	100÷230 Vac	CABLE+EUROPLUG	3.09 lb (1,40 kg)
BT0122S03	lens	60 °	3 W	100÷230 Vac	CABLE+EUROPLUG	3.09 lb (1,40 kg)
BT0124S01	lens	25 °	3 W	100÷230 Vac	CABLE+USA PLUG A	3.09 lb (1,40 kg)
BT0124S02	lens	40 °	3 W	100÷230 Vac	CABLE+USA PLUG A	3.09 lb (1,40 kg)
BT0124S03	lens	60 °	3 W	100÷230 Vac	CABLE+USA PLUG A	3.09 lb (1,40 kg)

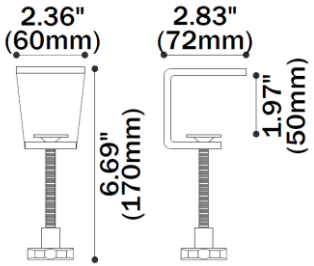
4. Guide to installation

4.1 Product sizes and accessories



4.2 Metal clamp CLAMP04





cod. CLAMP04
Robust, versatile vibration-resistant metal clamp made of black powder-coated stainless steel. Quick assembly on workbenches, manual machine tools, drilling machines etc.

4.3 Installation

ATTENTION

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

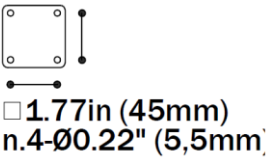
- When mounting the lamp ensure that the original fastenings are used, which you may purchase from the supplier.
- Have the fastening accessories correctly mounted.

WARNING

Switch off the power supply before proceeding to installation.

Correct installation using M5 screws

The lamp base has 4 fixing holes for screws up to M5. Provide the fixing holes on the dedicated surface following the indications of the fixing distances shown in the figure. Use screws of adequate size and material depending on the application.



Installation with metal clamp CLAMP04

Fix the clamp to the base of the lamp using the supplied M5 screws. Then fix the lamp on the support surface by adjusting the thickness with the appropriate handwheel knob

NOTICE

Damaged or broken lamp.

- When mounting the lamp ensure to never completely loosen the M5 screws in order to avoid the lamp fall- down.

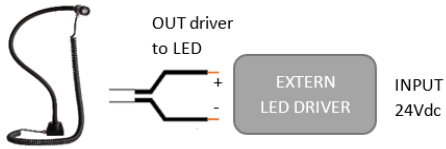
NOTE: The fastening parts for this lamp are available as accessories. Please For further details, visit our website:
www.ccealights-usa.com



5. Plug-in

NOTICE

- This lamp is supplied with a 5 ft power cord, external LED driver and power cord with plug (100/230V version only)
- Ensure that the power cord is correctly wired according to the electrical diagram.



Cable: PUR 2x0,75mmq L.5ft (1,5 m)

Wire	**connection**
Brown (Out Driver)	+ LED
Withe (Out Driver)	- LED

5.1 Low voltage plug-in with cable

NOTICE

Wrong wiring may cause damages to the lamp

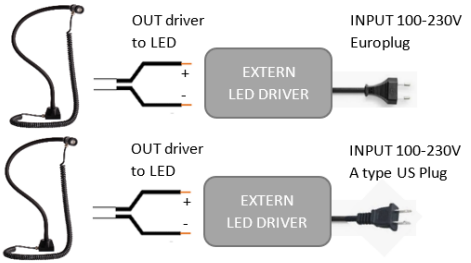
- All electrical connections have to be carried out by qualified electricians.
- Please respect the polarity of connectors
- Always use the power cord supplied with the lamp.
- Ensure that the supply voltage range to the lamp is closely respected in order to avoid damaging the Led drivers.

5.2 100-230Vac plug-in with cable

NOTICE

Wrong wiring may cause damages to the lamp

- All electrical connections have to be carried out by qualified electricians.
- Please respect the polarity of connectors
- Always use the power cord supplied with the lamp.
- Ensure that the supply voltage range to the lamp is closely respected in order to avoid damaging the Led drivers. Voltage range: 100÷230Vac 50-60Hz



Cable: PUR 2x0,75mmq L.5ft (1,5 m)+
PVC 2x0,75mmq with plug

Wire connection

Brown (Out Driver) + LED

Withe (Out Driver) - LED

6. Switch on – off

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

7. Troubleshooting

In case the lamp doesn't turn on:

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

Please contact CCEA'S USA Technical support service in case 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 properly installed and used following the instructions in this manual. Please contact 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 any installation, maintenance or reparation procedures.

This product is maintenance-free.

- Lamp cleaning to be carried out only after it has been switched off and surfaces have cooled.
- Carefully rinse the lamp surface with a mild cleanser and then wipe off using a soft cloth in order to avoid scoring it.

NOTICE

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

- In case the lamp is working 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 damages 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 having been approved by the manufacturer.

11. Warranty

Terms of warranty

CCEA ensures that any control procedures or repairs – to be carried out exclusively at/by CCEA Technical service dept. or by any CCEA'S official dealer – are covered throughout the entire product's lifetime. In view of the above, take care to 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 examining.

The warranty does not cover:

- Any transport, packaging or shipping costs;
- Any damages or deterioration caused by:
  -Installation and/or operation carried out following 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 lamp;
  - Failure to follow the safety precautions related to transport and to 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 delivery date. CCEA guarantees that the products have no manufacturing defects or malfunctioning.

12. Product disposal

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

In view of the above this equipment, all its components, subsystems and the consumables which are an integral part of the product have to be conveyed to the local collection facilities for them to be disposed of in accordance with the current legislation.

Please apply to the council offices of your place of residence in order

to know where the collection facilities are located.



13. Technical data

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

Power supply	24 VDC external driver LED 100-230Vac external LED driver
Power input	3 W (@ 700mA LED current) - see label
IEC Class	III (24 Vdc) II (100-230 Vac)
Degree of protection	IP67
LED driver	External
Light color temperature	5000K
CRI	80
Operating temperature	-4 F° / 113° F (-20 / +45 °C)

For any further information please refer to the table at page 7

14. Symbol keys

CE	CE Conformity marking
III	Protection class III device
⧈	Protection class II device
IP67	Degree of protection IP67
WET Location	Resistant against water and some coolant, emulsion, oil
IK06	Impact resistant EN 62262

15. Declaration of Conformity

C.C.E.A. SRL, via Piave, 2 - 36077 Altavilla Vicentina (VI), Italy – VAT and Tax number 02374040240 hereby declares that the light equipment named "BF1TMA" series – 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 in particular with the following regulations:

- **Directives**:

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

CE

- **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, for a safe, functional and sustainable product to be delivered.

C.C.E.A. SRL disclaims any responsibility resulting from tampering and/or wrong use of the device.

Date:_____
Week of production: _____
Product code: _____

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