ECLED2, ECLED3, ECLED4, ECLED5, ECLED6, ECLED8 Instructions

The ECLED range of LED tubes are suitable to replace T8 fluorescent lamps in luminaires with standard G13 (medium bi-pin) lamp holders. This product is intended to be compatible with most types of magnetic ballasts, for electronic ballasts the fitting will be required to be modified. If a ballast does not work properly in a switch start fitting (eg. causes flickering, noise or fails to operate), please refer to switch start alternative wiring or Method B or C direct wiring section of the instructions.

IMPORTANT NOTE
To prevent Risk of fire or electric shock the following should be adhered to;
LED retrofit installation must be done by a competent person or skilled qualified electrician
All safety instructions must be followed to avoid a risk of injury and property damage
Do not disassemble this product, there are no serviceable parts of the LED tube
Disconnect and isolate the mains AC supply before installation
Do not switch on AC power until the installation of LED tubes has been completed
The luminaire should be positioned so that no prolonged staring into the luminaire at a distance closer than 0.65m.
For use in dry location only
Dimmers are not to be used with fitting
The fitting cannot be installed in an emergency lighting fitting.

The Warning label shall be placed onto the fixture in a location where readily visible by the user during re-lamping and after installation: “Caution: Risk of injury or damage: This luminaire has been modified and can no longer operate a fluorescent lamp. Only use the replacement E-Matic ECLED range of LED tubes.

A Second warning label may be required for wiring method C, this is to identify which lamp holder has the AC mains power to ensure the LED tube is inserted the correct way round.

Installation Methods
You will need to determine the type of fitting:
- Switch Start Fitting, single or twin tube fittings size 4ft or above Please use Method A
- Modular Switch Start Fitting use Method B or C
- Electronic Fittings (Starterless) Use Method C
Method A: Installation Instruction for Switch Start /Magnetic Ballasts Fittings (size 2ft singles, 3ft/4ft/5ft/6ft/8ft)

- Ensure the AC power supply has been turned off/Isolated
- Remove Power Factor Capacitor – caution as this still may have charge
- Replace traditional starter with the supplied LED tube fuse starter (in one end of the packaging)
- **Attach Warning label** (WARNING This fitting has been modified & No longer operates fluorescent lamps Use only E-Matic ECLED LED Tubes
  DO NOT use or fit a fluorescent Tube DO NOT use a Dimmer)- The label shall be placed where readily visible by the user during re-lamping and after installation
- Insert new LED tube
- Reinstate the AC mains Supply

Switch Start Fitting Wiring Diagram Method A

Method B: Alternative Wiring Method for modular fittings or if LED lamp if flickering or the ballast is not working

- Ensure the AC power supply has been turned off/Isolated
- Disconnect/discard all ballast equipment, starter and power factor capacitor
- **Attach Warning label** - The label shall be placed where readily visible by the user during re-lamping and after installation
- Connect Live & Neutral to either lamp holder (please note this does not meet the TUV requirements)
- Replace traditional starter with the supplied LED tube fuse starter (one end of the packaging)
- Reinstate the AC mains Supply
Method C: Direct wire connection to the LED Tube

- Ensure the AC power supply has been turned off/Isolated
- Disconnect/discard all ballast equipment, starter and power factor capacitor
- Wire as per the below diagram “Wiring Method C”
- Rewire the lamp holder at one end only, Live on one pin Neutral on the other pin, the other lamp holder to be disconnected
- **Attach Warning label** – “Power This End” to identify which lamp holder has the AC power
- **Attach Second Warning label** - The label shall be placed where readily visible by the user during re-lamping and after installation
- Insert new LED tube **PLEASE NOTE** that the tube will need to be inserted the correct way round, the LED tube is identified “POWER THIS END ONLY” The other end of the tube pins are shorted together and incorrect insertion will blow a fuse or trip the circuit breaker.
- Reinstate the AC mains Supply

### Direct Wiring Method C

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Electronic ballast

Please remove the electronic ballast and fluorescent lamp and replace with LED lamp.

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Due to our policy of continuous improvement we reserve the right to change specification without prior notice. Errors and omissions excepted. These instructions have been carefully checked prior to publication. However, no responsibility can be accepted by E-Matic for any misinterpretation of these instructions.

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