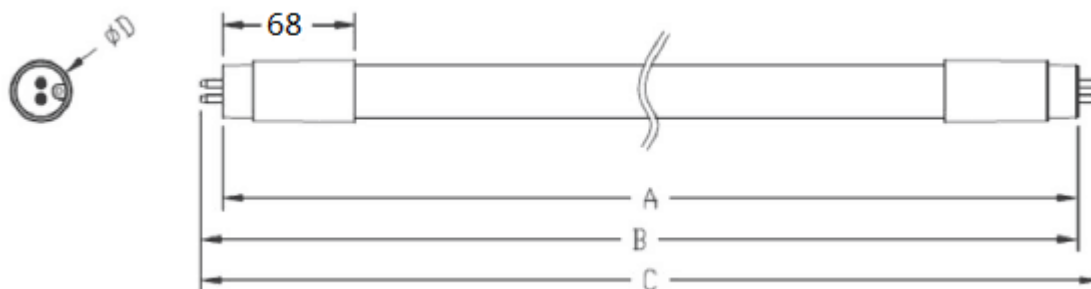


ESLED4, ESLED5 Instructions

ESLED4 - 1.2M (20W)

ESLED5 - 1.5M (24W)



Dimensions (mm):

Model	Cap	Size (mm)	A	B	C	D
			Max	Max	Max	Max
ESLED4 - 1.2M	G13	26x1200	1199.4	1206.5	1213.6	26
ESLED5 - 1.5M	G13	26x1500	1500	1506.5	1513.6	26

Features

- No need to remove the original ballasts (dependent on ballast in the fitting)
- No strobing effect
- No delay when the light is switched on
- Save up to up to 50% energy compared to normal fluorescent
- Low deterioration in light output, less than 3% after 1000 hours constant operation

3 Installation Methods

- Switch Start Fittings
- Electronic Fittings (please ensure fitting has compatible ballast)
- Direct Wiring

ESLED4 - 1.2M

Specification	ESLED4 -1.2M-20W		
Replacement fluorescent tube	T8 36W		
Input Voltage	176V~264V AC (Electrical ballast)	176V~264V AC (Inductance ballast)	176V~264V AC
Input Current	110mA (MAX)	100mA (MAX)	98mA (MAX)
Input power	22W	20W	20W
Power factor	≥0.9		
Voltage of tube	60V (MAX)		
Current of tube	320Ma (MAX)		
Color Temperature		4000K	
Color index	≥83		
Lumen	2200lm±100lm (4000K)	2200lm±100lm (4000K)	2200lm±100lm (4000K)
lm/w	≥90lm/w	≥100lm/w	≥100lm/w
Lumen maintenance	3000H@96%, 6000H@92% (ERP 6000H>80%)		
LED brand	Hanraysun		
LED size	2835		
LED quantity	90PCS		
Cap Size	G13		
Light Transmittance	90%		
Beam Angle	>110°		
Tube Material	GLASS + PET		
Tube weight	449g		
Size of carton box and Qty/box	1250*215*215 (20PCS)		
Lifetime L ₇₀	50,000H		
IP	IP20		
Operating Temperature	-20℃~45℃		
Ambient humidity	≤80%RH		
Storage temperature and humidity	-20℃~65℃ @ ≤95%RH		
Certificate	CE		

Specification	ESLED5 -1.5M – 24W		
Replacement fluorescent tube	T8-58W		
Input Voltage	176V~264 AC (Electrical ballast)	176V~264V AC (Inductance ballast)	176V~264 AC
Input Current	130mA±10%	115mA(MAX)	115mA±10%
Input power	27W	24W	24W
Power factor	≥0.9		
Voltage of tube	80V (MAX)		
Current of tube	300mA (MAX)		
Color Temperature	4000K		
Color index	≥83		
Lumen	2600LM±100LM (4000K)	2600LM±100LM (4000K)	2600LM±100LM (4000K)
lm/w	≥90LM/W	≥100LM/W	≥100LM/W
Lumen maintenance	3000H@96%, 6000H @ 92% (ERP 6000H>80%)		
LED brand	Hanraysun		
LED size	2835		
LED quantity	120PCS		
Cap Size	G13		
Light Transmittance	90%		
Beam Angle	>110°		
Tube Material	GLASS + PET		
Tube weight	600g		
Size of carton box and Qty/box	1605*185*160 (20PCS)		
Lifetime L ₇₀	50000H		
IP	IP20		
Operating Temperature	-20℃~45℃		
Ambient humidity	≤80%RH		
Storage temperature and humidity	-20℃~65℃@≤95%RH		
Certificate	CE		

The ESLED4/5 T8 LED smart tube is 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 (CCGs) and Electronic ballasts (ECGs), as direct retrofits for traditional fluorescent lamps without rewiring. If a ballast does not work properly (eg. causes flickering, noise or fails to operate), please refer to direct wiring/new luminaire 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

Disconnect power before installation.

Don't 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 can be prevented.

A **Warning label** should be affixed to the fitting (if applicable please refer to relevant installation instructions section).

For use in dry location only.

Dimmers are not to be used with fitting

The fitting cannot be installed in an emergency lighting fitting.

Method A: Installation Instruction for Switch Start /Magnetic Ballasts Fittings

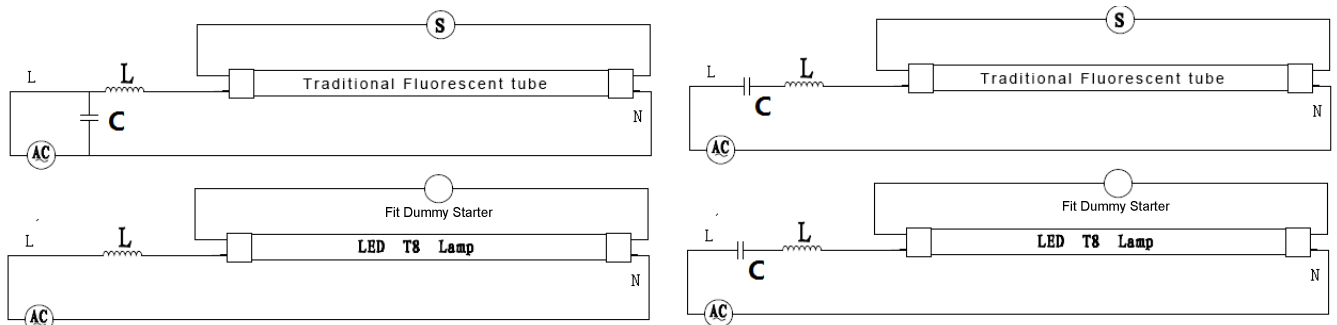
- Ensure the AC power supply has been turned off/Isolated
- Remove Power Factor Capacitor – caution as this still may have charge
- Remove Starter
- Insert Dummy Starter, this is to cover the starter hole (supplied in one end of the packaging)
If the existing starter is not replaced for the dummy starter this will damage the fitting
- **Attach Starter Warning label** - The label shall be placed next to the starter

WARNING

The starter installed is a non-powered starter (DUMMY)
Do not fit a standard starter as this will damage the LED tube

- Insert new LED tube
- Reinstate the AC mains Supply
- If the LED tube fails to illuminate, flicker or does not operate correctly then wiring **Method C** will be need to be completed.

Switch Start Fitting Wiring Diagram



IMPORTANT NOTE

Please ensure the existing starter is removed and is replaced with the supplied dummy starter as this will cause unrepairable damage and can be detected and will not be covered by the warranty.

Method B: Instructions For Electronic Ballasts Fittings

- Ensure the AC power supply has been turned off/ Isolated
- For compatible ballasts please see below list;

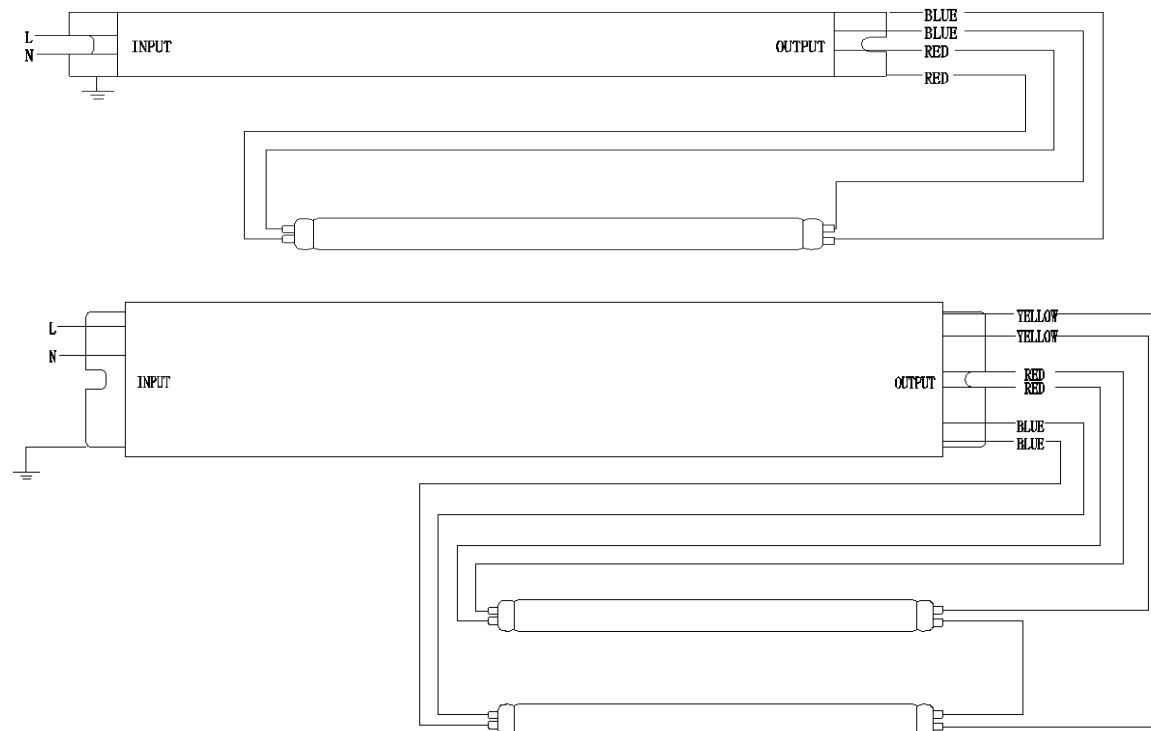
PLEASE NOTE: If the fitting does not have the listed below ballast then the tube may still work but if the LED tube fails to illuminate or flickers then the direct wire installation Method C will be required.

- Tridonic PC 1x36 T8 TEC
- OSRAM Quicktronic Professional 87 500 258
- OSRAM Eztronic EZP8 1X36/220
- OSRAM Quicktronic qtZ8 1X36/220
- Phillips E8 Economy EB-E 236 TLD
- Phillips EB-C 136 TLD 220
- Huafeng EER-T8-36-P2-CCS
- Huafeng EER-T8-36-P3-CCM
- Helvar EL1x36wHF
- CH Lighting CH-T8EB2/6
- CH Lighting CH-T8EB236
- CH Lighting CHTABA136
- PAK013020

Method B:

- If the fitting has a compatible ballast then follow the below steps, other ballasts may work but if the LED tube fails to illuminate then refer to **Method C**
- Insert new LED tube
- Reinstall the AC mains Supply
- If the LED tube fails to illuminate, flicker or does not operate correctly then wiring **Method C** will be need to be completed.

Electronic (starter-less) Fitting Wiring Diagram



Method C: Direct wire connection to the LED Tube

- Ensure the AC power supply has been turned off/Isolated
- Disconnect/discard all ballast equipment
- Insert Blank plug to cover starter entry hole (if the fitting had a starter)
- **Attach Warning label** - The label shall be placed where readily visible by the user during re-lamping and after installation

WARNING LABEL

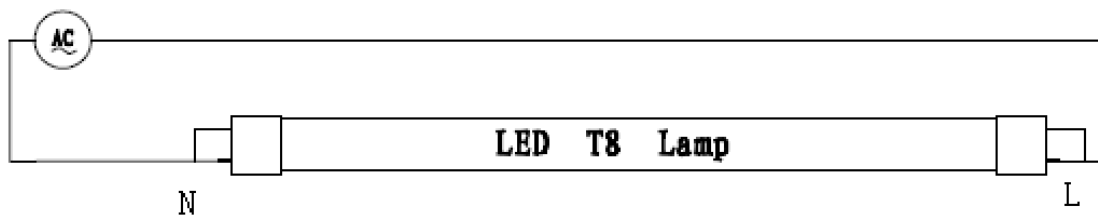
This fitting has been modified & No longer operates fluorescent lamps

Use only E-Matic ESLED LED Tubes

DO NOT use or fit a fluorescent Tube

DO NOT use a Dimmer

- Wire as per the below diagram
- Insert new LED tube
- Reinstall the AC mains Supply



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.