

Technical Specification

Safety and environmental conditions

| | |
|------------|---|
| CE marking | LV directive 2006/95/EC RoHS directive 2011/65/EU WEEE directive 2012/19/EU |
| Standard | EN-IEC 61439-2:2011 EN-IEC 60269-3:2013 |

This product is designed to be safe under the following conditions:

Specification

| | |
|--|--|
| Environmental conditions Operating temperature: Relative humidity: Protection degree: Installation class: Pollution degree: | -5°C - +55°C 5% - 85%, non condensing IP23 1 (protective earth) 2 |
| Application conditions Umax: Frequency: Imax: Imax to armature: Fuse: Strain relief: Maximum wire cross section and torque : Diameter ø Height | 230/400V 50Hz 50A (mantle terminals) 6A per fuse 2x DII (E27), max 6A each Yes, maximum two ground cables 23mm and 2 light poles cords Terminal N, 1, 2, 3, PE: 2x 10mm ² or 3x 6mm ² , 2-4Nm Terminal 5, 6, 7: 2.5mm ² , 1-2Nm 94mm 279,5mm |
| Storage Temperature: Relative humidity: | -20°C - +70°C 5% - 85%, non condensing |
| Approval | KEMA-Keur |

Specification per type

| | 5L2301 | 5L2302 | 5L2303 | 5L2304 | 5L2305 | 5L2306 | 5L2307 |
|-------------------|--------|--------|--------|--------|--------|--------|--------|
| Fuse included | 1x 4A | | | 1x 6A | 2x 6A | 2x 4A | 1x 6A |
| PE-N connection | Yes | Yes | | | Yes | | Yes |
| Covered Terminals | | | | | | Yes | |
| Weight | 660gr | 570gr | 570gr | 660gr | 750gr | 750gr | 660gr |

Please be aware, product liability, fulfillment to requirements and warranty are all expired when modifications on the product are made.

ELEQ reserves the right to carry out modifications on its products, in order to improve them, without prior notice.

Safety instruction

All activities for installation, commissioning and maintenance of this connection box must be performed by qualified personnel that has the knowledge of applicable safety precautions. This guide assumes that the reader of this document has sufficient electro-technical knowledge to understand the content of this document.

General

The LS-94 is a connection box for public lighting and intended to be used in lighting poles. The connection box should be mounted in a weather protected and dry location. In the connection box the incoming (ground) cable can be connected. If desired, looped circuits wiring to the next lighting pole is possible. The cable of the armature should be connected on the outgoing terminals.

Fuses protect the installation against overload and short-circuiting.

Explanation of symbols



This product is designed according to the EN-IEC 61439-2:2011 standards and meets the requirements of the Low Voltage Directive 2006/95/EC.



Read the installation guide before mounting the product. Unprofessional work activities on electrical installations may result in a threat of danger to the life and health of human beings and livestock!



RoHS Directive 2011/65/EU

ELEQ states that it uses qualified components in its products only from manufacturers which meet the requirements of the European Directive for the "Restriction of use of certain Hazardous Substances"



WEEE Directive 2012/19/EU

This equipment should not be disposed as unsorted municipal waste. Contact a qualified recycler for disposal.



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LS-94 Connection Box for Public Lighting Installation Guide



5L2303

LS-94

5L2301
5L2302
5L2303
5L2304
5L2305
5L2306
5L2307

Read this installation guide before installing the product

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Always avoid working on live parts of an installation.

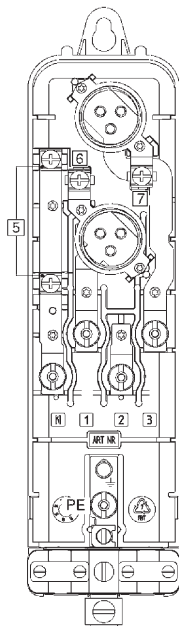
Functional Description

The terminal boxes of the 5L230x series all are intended to be fitted with one or two DII fuses. The fuse capacity is limited to max 6A.

A connection between PE and the frame of the lighting pole is made automatically by mounting the terminal box to the lighting pole.

Assembly

1. Ensure a safe working area during assembly, maintenance and inspection of the connection box. Disconnect the power of the main circuit and make sure it can not be enabled unintentionally.
2. Remove the transparent lid, mounted fuses and the intermediate cover.
3. Mount the connection box with the upper and lower connection in the lighting pole.
4. Connect the incoming and (if present) outgoing ground cable to terminals N, 1, 2, 3 and PE.
5. Mount the outgoing cables to the armature(s).
6. Tightly mount strain relief block.
7. Check if the connections are mounted properly and firmly.
8. Install the fuse(s). Fuse type: DII (E27), max 6A.
9. Mount the transparent lid and screw tightly.



Incoming

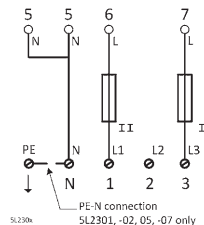
N = Neutral
 PE = Protective earth
 1 = phase L1
 2 = phase L2
 3 = phase L3

Outgoing

5 = Neutral
 6 = fused phase L1
 7 = fused phase L3

If required, incoming terminals N, PE, 1, 2 and 3 can be looped to the next lighting pole.

Wiring Diagram



Maintenance and inspection

- The connection box should be situated on a dry and clean location.
- The connection box should be mounted firmly.
- The connections should be mounted firmly.

Attention

Always avoid working on live parts of an installation.

Disassembly instruction

Disconnect the power of the main circuit and make sure it can not be enabled unintentionally.

1. Unmount the transparent lid.
2. Remove the fuses.
3. Remove the strain relief block.
4. Disconnect the ground cables.
5. Disconnect the connection box from the lighting pole.

Recycling

When the product has reached 'end of life', it must be recycled. Do not dispose this product as unsorted municipal waste. Contact a qualified recycler for disposal.