

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: Fuse: Strain relief: Maximum wire cross section and torque:	400V (one phase) 50Hz 25A 1x DII (E27), max 6A Yes, maximum 2 ground cables 23mm and 2 light poles cords Terminal N, 1, 2, 3: 2x 10mm ² , 2-4Nm Terminal 4, 5: 2.5mm ² 1-2Nm
Diameter ø Height	94mm 279.5mm
Storage Temperature: Relative humidity:	-20°C - +70°C 5% - 85%, non condensing
Approval	KEMA-keur

Specification per type

	5L2401	5L2402	5L2403	5L2409	5L2410
Fuse included		4A			
Phase selection				Yes	Yes
PE-N connection			Yes		Yes
Covered mantle terminals		Yes			
Weight	500gr	570gr	510gr	560gr	570gr

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



5L2409

LS-94

5L2401
5L2402
5L2403
5L2409
5L2410

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 5L240x series all are intended to be fitted with one DII fuse. The fuse capacity is limited to max 6A. Types 5L2409 and 5L2410 are provided with phase selection: the phase to be connected to the fuse has to be chosen by the black selection pin (screw type).

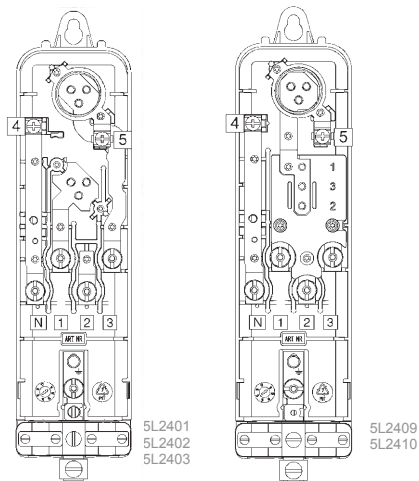
A connection between PE and the frame of the lighting pole is made automatically by mounting the terminal box to the lighting pole.

Assembly

Attention

Remove the fuse during assembly of the connection boxes

1. Ensure a safe working area during assembly, maintenance and inspection of the connection box. Disconnect the power of the primary circuit and make sure it cannot be enabled unintentionally.
2. Remove the transparent lid, fuse 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. Note: fuse type: DII (E27), max 6A.
9. Mount the transparent lid and screw tightly.



Incoming

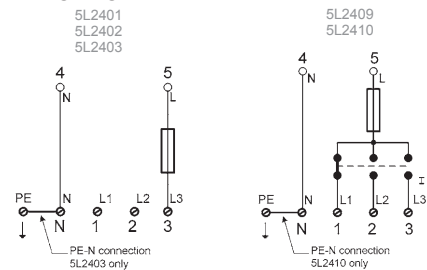
N = Neutral
PE = protective earth
1 = Phase L1
2 = Phase L2
3 = Phase L3

Outgoing

4 = Neutral wire to armature
5 = Phase wire to armature

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

Wiring Diagram



Attention

Types 5L2409 and 5L2410 are provided with phase selection: the phase to be connected to the fuse has to be chosen by the black selection pin (screw type).

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

1. Disconnect the power of the main circuit and make sure it cannot be enabled unintentionally.
2. Unmount the transparent lid.
3. Remove the fuse.
4. Remove the strain relief block.
5. Disconnect the ground cables.
6. 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.