

Technical Specification

Safety and environmental conditions

CE marking	LV directive 2014/35/EU RoHS directive (EU) 2015/863 WEEE directive 2012/19/EU
Standard	EN-IEC 61439-2:2011

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

Specification

Environmental conditions	
Operating temperature:	-5°C - +55°C
Relative humidity:	5% - 85%, non condensing
Protection degree:	IP20
Installation class:	1 (protective earth)
Pollution degree:	2
Application conditions	
U _{max} :	230V (L-N)
I _{nA} :	16A
Frequency:	50Hz
Protection:	Fuseholder 10x38 +Residual Current Device
Strain relief:	maximum 2 ground cables 23mm and 2 light poles cords
Maximum wire cross section and torque :	Terminal 1, 2, 3, N, PE: 2x 4mm ² 0.6-0.8Nm, stripping length 9mm PE: max 2x10mm ² 2-4Nm, stripping length 15mm
Diameter ø (mm)	99
Height (mm)	280
Storage	
Temperature:	-20°C - +70°C
Relative humidity:	5% - 85%, non condensing
Material:	PA 6.6, UL94 V2

Specifications

	5L6024
Fuse	10x38 mm, 6A
Earth leakage circuit breaker	30mA

Please be aware, product liability, standards 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 can be used in lighting poles, busshelter, billboard bw. 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.

A fuse protect the installation against overload and short-circuiting. And a RCD against earth fault.

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 2014/35/EU.



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 (EU) 2015/863

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



LS-94

5L6024

Read this installation guide before installing the product

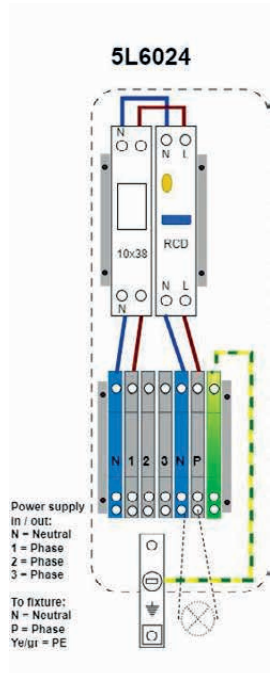
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Wiring Diagram



If required, incoming terminals 1 through 3, N and PE can also be looped to the next connection box.

Attention

Ensure the handle of the RCD can move freely when the cover of the box or lighting pole is closed.

Functional Description

The connection box is delivered including fuse holder, with fuse and a Residual Current Device. The RCD can be actuated from outside, the box has not to be opened.

Attention: Do not open the fuse under load!

Ensure a safe working area during assembly of the connection box. Disconnect the power of the primary circuit and make sure it can not be enabled unintentionally, or follow the instructions of the network owner.

Assembly

1. Unscrew the outer cover and strainrelief and store in a dry and clean place
2. Attach the box with the top and bottom mounting hole with screws M6x16 in a lightpole or cabinet.
3. The incoming and (if present) outgoing ground cable to terminals See diagram.
4. Tightly mount the strain relief block.
5. Mount the outgoing cables to the armature on terminals N and P. Use terminal PE for the protective earth wire (if present).
6. Secure the fixture cables with the top strain reliefs.
7. Check if the connections are mounted properly and firmly.
8. Mount the transparent lid and screw tightly.

Maintenance and inspection

Ensure a safe working area during inspection of the connection box. Disconnect the power of the primary circuit and make sure it can not be enabled unintentionally, or follow the instructions of the network owner.

- 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.

Disassembly instruction

1. Disconnect the power of the main circuit and make sure it can not be enabled unintentionally.
2. Unmount the transparent lid.
3. Switch off the RCD and remove the fuse from the fuse holder
4. Remove the strain relief block.
5. Disconnect the fixture and ground cables.
6. Remove the connection box from the lighting pole or cabinet.
7. Install a new equivalent box or insulate the cables according the network owner's instructions.

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.