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:	IP23
Installation class:	II (double insulation)
Pollution degree:	2
Application conditions	
Umax:	400 V
I_{nA}:	63 A (mantle terminals)
Frequency:	50 Hz
Fuse:	2 or 3x D01 (E14), max 16A
Strain relief:	Yes, maximum 2 ground cables 23mm and 2 light poles cords
Maximum wire cross section and torque :	Terminal N, 1, 2, 3: 2x 16mm^2, 2-4Nm Terminal 4, 5, 6, 7: 2.5mm^2 1-2Nm*
Diameter ø (mm)	84
Height (mm)	279,5
Storage	
Temperature:	-20 °C - +70 °C
Relative humidity:	5% - 85%, non condensing

* Multi-wire flexible conductors must be assembled in ring-tongues, ferrules or wire pins.

Specification per type

	5L4162..	5L4163..	5L4164..	5L4165..
Fuse included	2 x 6A	3 x 6A	3 x 2A	2 x 2A
PE-N connection	No	No	No	No
Weight (gr)	560	570	570	560

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-84 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 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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83969 / EN2407

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LS-84 Connection Box for Public Lighting
Installation Guide

5L4163

LS-84 5L4162 ..
5L4163..
5L4164..
5L4165..

Read this installation guide before installing the product

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Ensure that the installation is voltage-free.

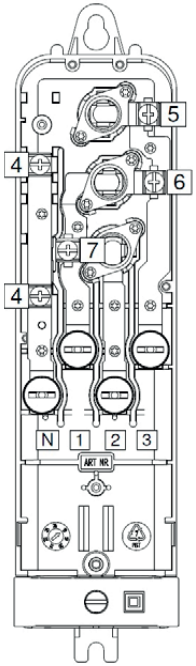
Functional Description

The connection boxes of the 5L41xx series all are intended to be fitted with one D01 fuse. The fuse capacity is limited to 16A.

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. Mount the connection box with the upper and lower connection in the lighting pole.
3. Connect the incoming and (if present) outgoing ground cable to terminals N, 1, 2 and 3.
4. Mount the outgoing cables to the armature(s) on terminals 4, 5, 6 and 7 (5L4163 and 5L4164).
5. Tightly mount strain relief block.
6. Check if the connections are mounted properly and firmly and place the intermediate cover.
7. Install the fuse. Note: fuse type: D01 (E14), max 16A.
8. Mount the transparent lid and screw tightly.

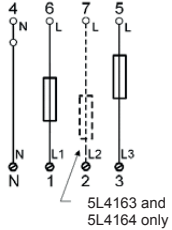


Incoming
N = Neutral
1 = Phase L1
2 = Phase L2
3 = Phase L3

Outgoing
4 = Neutral wire to armature
5 = Phase L3 wire to armature
6 = Phase L1 wire to armature
7 = Phase L2 wire to armature
(5L4163 and 5L4164).

If required, incoming terminals N, 1, 2 and 3 can also 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
Ensure that the installation is voltage-free

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 fuses.
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.