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:	-5°C - +55°C
Relative humidity:	5% - 85%, non condensing
Protection degree:	IP55
Installation class:	2 (double insulation)
Pollution degree:	2
Application conditions	
Umax:	230/400V
Frequency:	50Hz
Imax:	50A (mantle terminals)
Imax to armature:	25A
Fuse:	Cylindrical 10x38mm, 3pcs
Strain relief:	Yes, maximum two ground cables 23mm and 2 light poles cords
Maximum wire cross section and torque:	Terminal 1, 2, 3, 4, 5: 2x 16mm^2. (2-4Nm) Terminal 6, 10: 4mm^2 or 2x 2.5mm^2 (2Nm) Terminal 7, 8, 9: 16mm^2 (2.5Nm)
Diameter ø (mm):	100
Height (mm):	297
Storage	
Temperature:	-20°C - +70°C
Relative humidity:	5% - 85%, non condensing
Approval	KEMA

Specification per type

	5L8001	5L8003	5L8010
Fuse included			1 x4A
PE-N connection	Yes	Yes	
N-strip			Yes
External lead for earthing	Yes		
Weight (gr)	900	880	900

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-100 is a connection box for public lighting and intended to be used inside as well as outside lighting poles and for wall mounting. The connection box should be mounted in a weather protected and clean 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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83706 / EN1603

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LS-100 Connection Box for Public Lighting
Installation Guide

LS-100	5L8001 5L8003 5L8010

Read this installation guide before installing the product

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Always avoid working on live parts of an installation.

Attention
A double isolated connection box may only be replaced by a double isolated connection box. The double isolated connection box cannot be replaced by a regular connection box with automatic earthing.

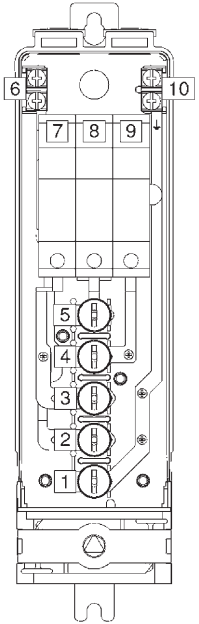
Functional Description

The terminal boxes of the 5L800x series all are intended to be fitted with up to three 10x38 fuses.

Assembly

Attention
Remove the fuses during assembly of the connection boxes

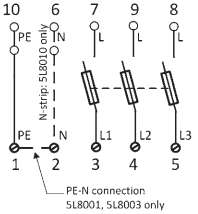
1. Ensure a safe working area during assembly, maintenance and inspection of the connection box. Disconnect the power of the primary circuit and make sure it can not be enabled unintentionally.
2. Mount the connection box with the upper and lower connection in the lighting poles.
3. Connect the incoming and (if present) outgoing ground cable to terminals 1 through 5.
4. Mount the outgoing cable(s) on terminals 7 through 10. For 5L8010: mount neutral on terminal 6
5. Tightly mount strain relief block.
6. Check if the connections are mounted properly and firmly.
7. Install the fuse(s). Fuse type: cylindrical 10x38mm.
8. Mount the cover and screw tightly.



Incoming
1 = PE - earth
2 = Neutral
3 = Phase L1
4 = Phase L2
5 = Phase L3

Outgoing
6 = Neutral
7 = Phase L1 (fused)
8 = Phase L3 (fused)
9 = Phase L2 (fused)
10 = PE - earth

Wiring Diagram



Maintenance and inspection

- The connection box should be situated on a weather protected 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 cannot be enabled unintentionally.

1. Unmount the cover.
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.