ernitec

SYSTEM X

LON® Box X

I141DX

Installation Manual

2853-00008

Validity

This manual covers the following LON® Box:

- LON® Box type I141DX

Compatibility

The SYSTEM X LON® Box is compatible with the following equipment:

- Matrix X, all types.
- SYSTEM X Telemetry Receivers, all types.
- Keyboard X, all types.

Approvals

All LON® Box types are CE certified and approved with respect to EN 50081-1, EN 50130-4 (EMC) and EN 60950 (LVD).

Operation

One type of SYSTEM X LON® Box is available.

- I141DX: 8 alarm inputs and 8 general purpose relay outputs.

Setup

There are no setup functions in the LON Box itself. All functions and settings are programmed using the *NodeManager S111SX* software.

LON® Network

For details on the LON® Network, installation, cabling and termination, please see the *NodeManager S111SX Installation Manual.*

Trademarks

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Installation

Unpacking the LON® Box

After unpacking the LON® Box, carefully check for any signs of damage. Any such damage should be reported to your supplier, before installation.

Check that the packing carton contains the following items:

- 1 pcs. SYSTEM X LON® Box.
- 1 pcs. LON® Box X Installation Manual (this manual)
- 1 pcs. screw kit.

Box Installation

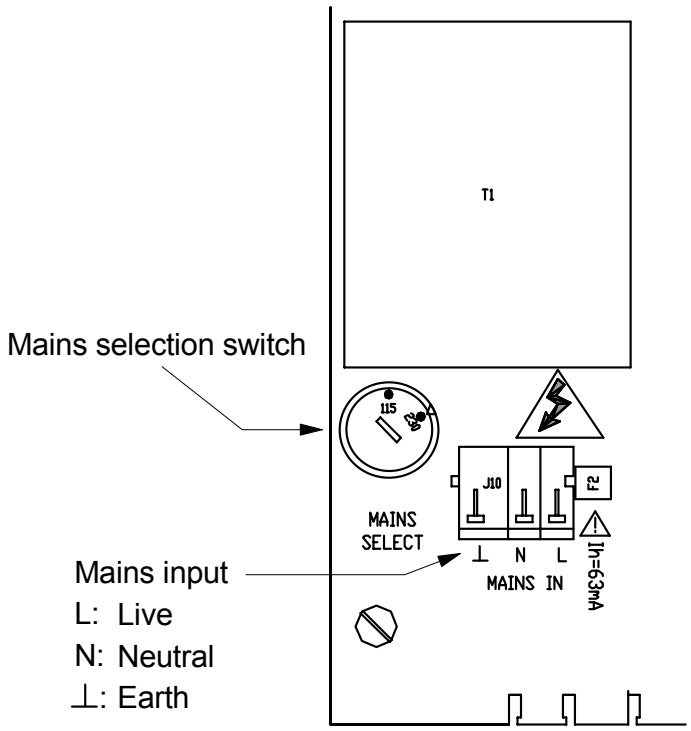
Choose a plane surface to prevent the box from being twisted and thereby becoming leaky. When installed outdoor the box should be oriented with the cable glands pointing downwards.

Drilling pattern is shown on the back of the box.

Box dimensions (excl. glands) are: 242 x 160 x 90mm (W x H x D)

Mains installation

The LON® Box can be supplied with either 115 VAC or 230 VAC mains voltage. The mains voltage is selected by the mains voltage selection switch.



The LON® Box must be used with a 3-wire mains connection (2W+PE @ min. 0,75mm^2).

Terminals marked with hazardous live symbol requires installation by an instructed person.

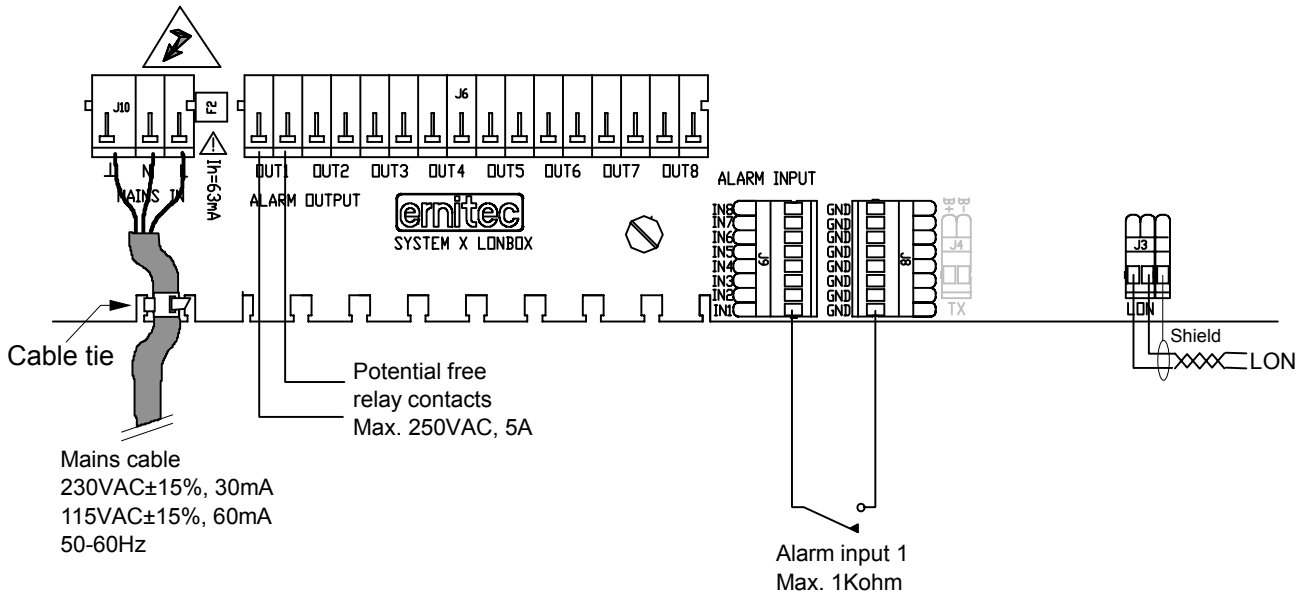
If permanently connected to mains, a readily accessible disconnect device shall be incorporated in the building installation wiring.

If pluggable connection to mains, the socket-outlet shall be installed near the equipment and shall be easily accessible.

Cable connections

It is of utmost importance that all cable connections are carried out exactly as described, in order to avoid malfunction or damage to the LON® Box and/or the connected equipment.

All cables to and from the LON® Box are fed through the cable glands. Choose an appropriate size gland for the actual cable and tighten the glands when all cables are connected.



In order to fulfil safety standard EN 60950, all cables carrying mains voltage, must be secured to the PCB by means of e.g. a cable tie, as shown in the above drawing.

LON®

For details on the LON® Network, installation, cabling and termination, please see the *NodeManager S111SX Installation Manual.*

To comply with EMC/EMI standard EN 50130-4, shielded LON® cable must be used.

Connection is polarity insensitive.

Alarm Inputs

Alarms can be activated by opening/closing contacts (defined with the *NodeManager S111SX* software). The maximum allowed total resistance of alarm cable/contact is 1Kohm.

Alternatively, the alarm inputs can also be activated with TTL voltage levels.

The LON® Box is fitted with a tamper alarm, that activates if the box is opened. The function of the tamper alarm is defined using the *NodeManager S111SX* software.

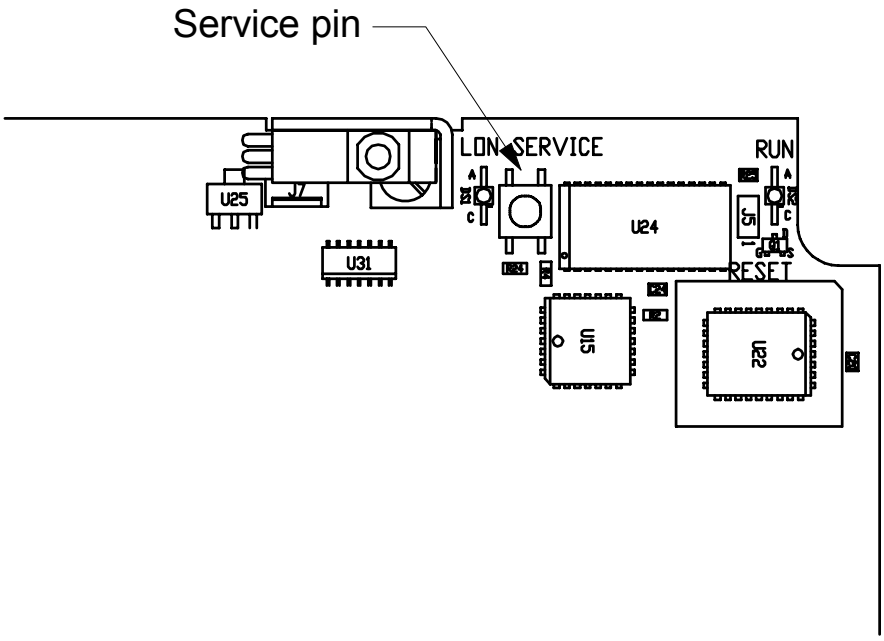
Service pin

When the LON® Box is connected to the LON® Network, the service pin must be pressed for the *NodeManger* software to identify the LON® Box. Use a small screwdriver, or similar, to press the service pin. The yellow LED next to the service pin will light up shortly, when the service pin is pressed.

Make sure that the *NodeManager* software is running, and online, prior to pressing the service pin.

It is of out most importance to keep track of the order in which service pins are pressed on the various SYSTEM X units.

Please see the *NodeManager Manual* for full details on the function, and importance, of the service pin.



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