

2 Relay box

with buildin power supply



How does it work?

Foreword:

The purpose of this document is to describe how to install and configure Neets 2 relay box with build-in power supply.

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Revision list:

Author: Date	Description	Pages
SDV 24-09-09	New design	All
SVL 11-11-09	Change output voltage	4,5
	Add recommended screen size.	4
SDV 18-12-09	New pictures added	3,5,6
DB 09-03-12	New company address	1

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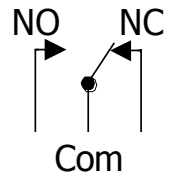
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Description

The Neets 2 Relay box with build-in power supply gives you 2 dry contact relays that each can be controlled by a control input¹ (Supported by all Neets Control systems). The relay box can be used in either low voltage or high voltage (230VAC) mode, and never at the same time (When using the “Screen” connector).

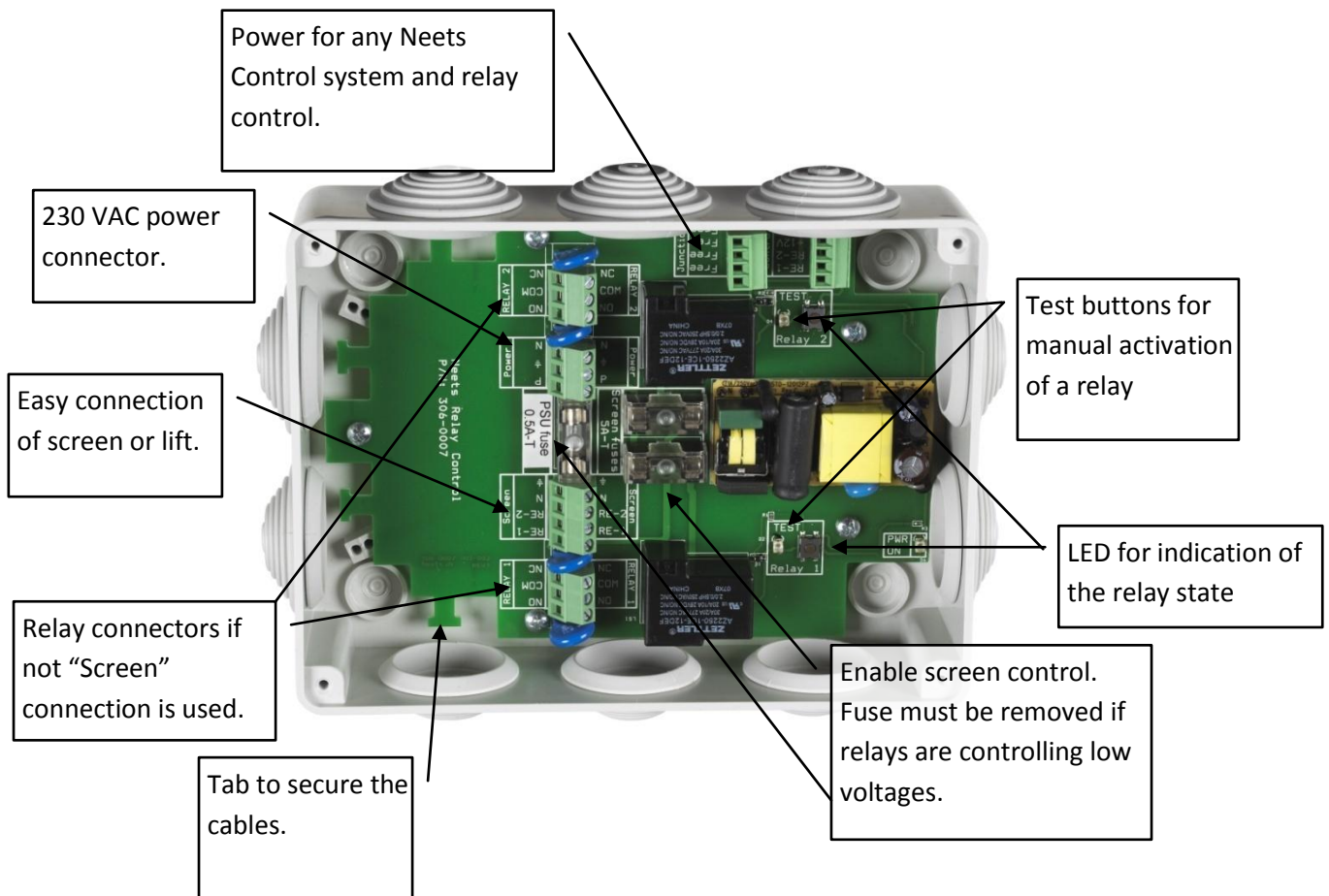
On each of the two relays you have access to both the NO (Normal open contacts) and the NC (Normal close contacts). This gives you the opportunity to use it according to your needs. When using the Neets 2 relay box you have the benefit of selecting what type of voltage you want used at installation time.



The flexibility of the relay box offers you the possibility to control high voltage or low voltage (**Please note that high and low voltage cannot be used simultaneous**). If you want to connect a 230 VAC controlled screen or lift to the relay box, the “screen mode” gives you easy and safe way to connect your screen or lift.



Note that the relay box from factory is configured to control a 230 VAC screen or lift. Using the “Screen” connector and therefore you must not use the “Relay 1” and “Relay 2” connectors. If you do not want to use the “Screen” connector, please remove fuse F1 and F3. Read the section “Controlling an electrical screen or lift” on page 7 for further details.



¹ “Control inputs” is the name used in this manual for the 2 inputs (RE-1 and RE-2) that allows the Neets control system to control it.

Technical specification

Technical details:

Power supply 230 VAC

Relay load max AC1: 1150 Watt

Relay load max AC15 (230VAC): 500 Watt

Relay Single-phase motor rating (230 VAC): 370 Watt

Relay max voltage: 230 VAC

Maximum screen size(Recommended): 2,5 meter.

Control inputs: Active when connected to ground.

V+ 12 V Dc/300 mA

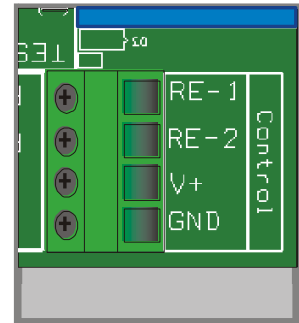
How to connect it?

This section will cover how to connect the Neets Control – EU with the Relay box 306-0007. It will also give some examples on how to connect an external device to the relay box, please note that there are several other ways to use the relay box than described in this guide.

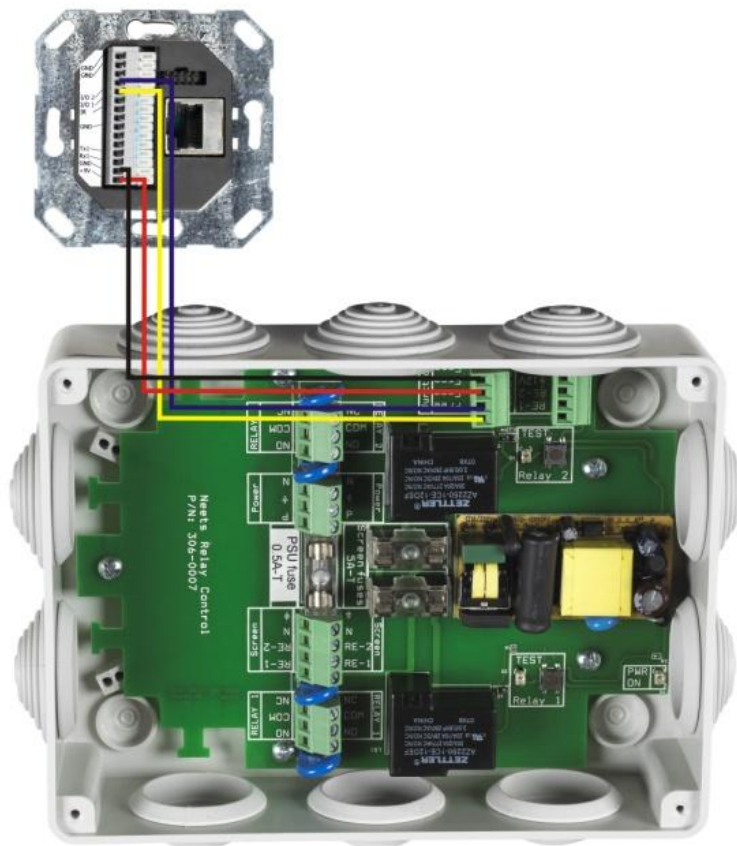
ALWAYS be sure that 230 VAC is disconnected when installing/changing **ANYTHING**.

Connecting the Relay box to the control system.

Pin name	Description
GND	Ground
V+	12 V Dc positive supply, can be used to supply the control system
RE-1	Control input for Relay 1. Relay is activated when pin is GND.
RE-2	Control input for Relay 2. Relay is activated when pin is GND.



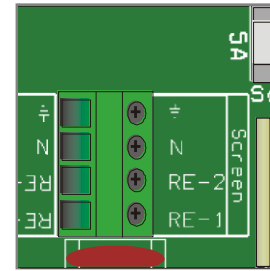
When controlling the relay box from the Neets Control – EU system you can connect it like this:



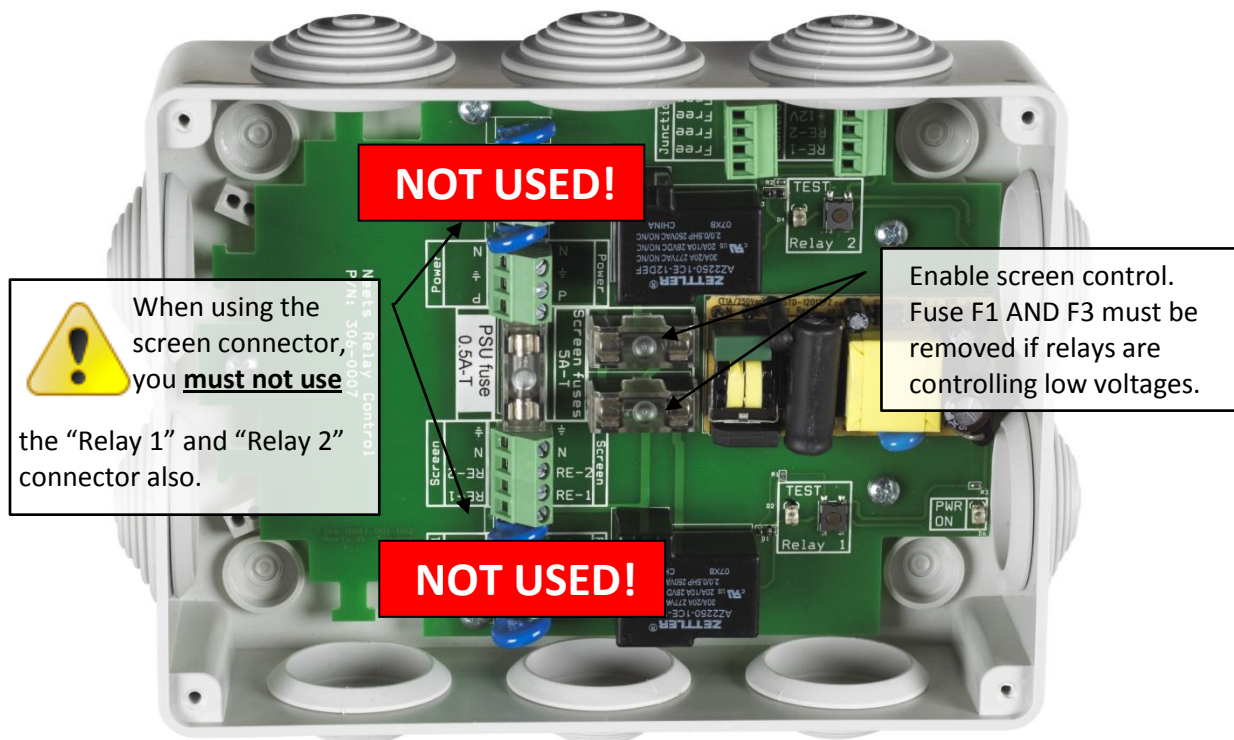
Controlling an electrical screen or lift

The relay box offers you easy connection of a 230 VAC electrical screen or lift.

By using the screen terminals you get an easy connection of your screen and even more the high security mode prevent you from accidentally making short circuit. The Relay 1(RE-1) is now controlling the screen in one direction, and there is **ONLY** power to the screens other direction (RE-2) when Relay 1(RE-1) is "Released". Be sure to set up the software to fit this hardware configuration.



To enable screen mode insert fuse F1 and F3.



Cable in/out of the box

The relay box comes with rubber grommets, that allow you to use any cable size you want, and the taps inside the box gives you a good and flexible way of safely fixating the cable.

Use the include binders to tie the cables like below or what fits you installation.

