

**RELAY CARD** 



# K2633

"Control up to 4 high-power circuits from a low-power drive circuit.

ILLUSTRATED ASSEMBLY MANUAL

Total solder points: 92 Difficulty level: *beginner* 1 □ 2 ⊠ 3 □ 4 □ 5 □ *advanced* 

H2633IP-1

Features & Specifications

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The connection of a few relays to the outputs of an electronic circuit might be theoretically very simple, but practically it may lead to a very complicated matter with all possible results. This kit is an attractive and compact alternativ, fast to construct and to mount. It can be used with open collector circuits.

#### Features:

- Four relay outputs, single pole invertors
  Max. load : 240V AC / 3A resistive
  9V DC / 300 mA power supply
  Four control-LED's are provided
  Is controlled by an open collector output (9V/15 mA)
  Dimensions : 76 x 69 x 25 mm.

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#### Assembly hints

1. Assembly (Skipping this can lead to troubles !) Ok, so we have your attention. These hints will help you to make this project successful. Read them carefully.

#### 1.1 Make sure you have the right tools:

- A good quality soldering iron (25-40W) with a small tip.
- Wipe it often on a wet sponge or cloth, to keep it clean; then apply solder to the tip, to give it a wet look. This is called 'thinning' and will protect the tip, and enables you to make good connections. When solder rolls off the tip, it needs cleaning. Ø,

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- Thin raisin-core solder. Do not use any flux or grease.
- A diagonal cutter to trim excess wires. To avoid injury when cutting excess leads, hold the lead so they cannot fly towards the eyes.
- Needle nose pliers, for bending leads, or to hold components in place.
- Small blade and Phillips screwdrivers. A basic range is fine.

#### -( For some projects, a basic multi-meter is required, or might be handy

#### 1.2 Assembly Hints :

- $\Rightarrow$  Make sure the skill level matches your experience, to avoid disappointments.
- $\Rightarrow$  Follow the instructions carefully. Read and understand the entire step before you perform each operation.
- $\Rightarrow$  Perform the assembly in the correct order as stated in this manual
- $\Rightarrow$  Position all parts on the PCB (Printed Circuit Board) as shown on the drawings.
- $\Rightarrow$  Values on the circuit diagram are subject to changes.
- $\Rightarrow$  Values in this assembly guide are correct\*
- $\Rightarrow$  Use the check-boxes to mark your progress.
- $\Rightarrow$  Please read the included information on safety and customer service

\* Typographical inaccuracies excluded. Always look for possible last minute manual updates, indicated as 'NOTE' on a separate leaflet.

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Assembly hints

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1.3 Soldering Hints :

1- Mount the component against the PCB surface and carefully solder the leads

2- Make sure the solder joints are cone-shaped and shiny





3- Trim excess leads as close as possible to the solder joint

**REMOVE THEM FROM THE TAPE ONE AT A TIME !** 

AXIAL COMPONENTS ARE TAPED IN THE COR-RECT MOUNTING SEQUENCE !





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Construction

Construction & connection

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#### 7. Connection

Connect the power voltage of the relay to the 9V DC points.

 ${}^{e}\!\!\!/$  This voltage needs not to be stabilised.

The connection of the loads to the relays is very simple : at the outputs the name of the contact is given.

- C stands for the common contact.
- NC for the contact of the inverter that is closed in rest.
- NO for the normal open contact.

In most cases you will only use C and NO.

In order to avoid disturbances and bum-in of the contacts when switching inductive loads (motors, heavy-duty-relays, ...) we recommend to install a VDR over the contacts.

When this should not be an adequate cure against disturbances in the control circuit, you have to place the relay print nearby the load itself.





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