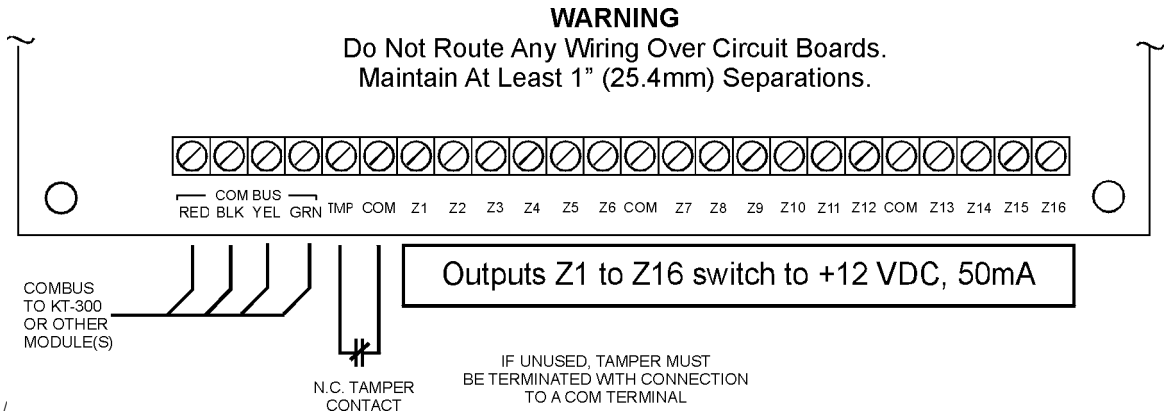


1. Introduction

The **KT-PC4216** is an open collector to 12 VDC 16 zones output module. It can be used for elevator access control (may require additional hardware).

2. Specifications

- 16 outputs low current module, 12V, 50mA max. each, power drawn from Combus (since Combus can handle a maximum of 500mA, a KT-PC4204 module in "repower" mode can be used to increase the current of the Combus of 1 Amp)
- Connects to KT-300 via 4-wire Combus
- Nominal current draw of 15mA (from Combus)
- Tamper contact input
- Can be used for elevator access control

3. Installing the KT-PC4216

3.1. Unpacking

The **KT-PC4216** package should include the following parts/items:

- One (1) KT-PC4216 circuit board
- Four (4) plastic standoffs
- One (1) installation instructions sheet

3.2. Mounting

The **KT-PC4216** should be located inside a compatible cabinet (Kantech part no. KT-4051CAB), mounted in a dry, secure location. Preferably, it should be placed at a convenient distance from the connected devices.

Perform the following steps to mount the unit:

1. Press the four (4) plastic standoffs through the mounting holes at back of the cabinet,
2. Secure the cabinet to the wall in the desired location. Use appropriate wall anchors when securing the cabinet to drywall, plaster, concrete, brick or other surfaces,
3. Press the circuit board into the plastic standoffs to secure the module to the cabinet.

Once the unit is mounted, wiring may be started.

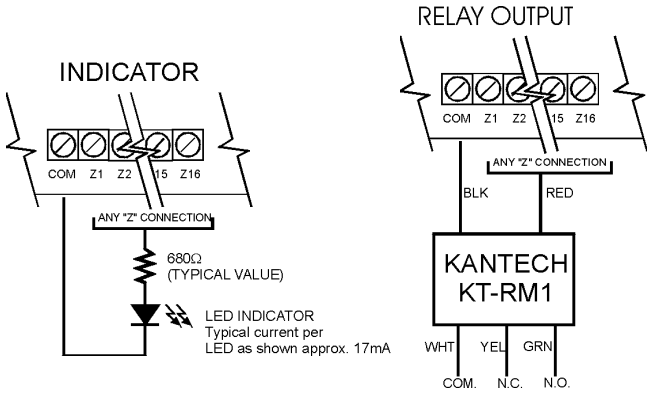
3.3. Installation and Wiring

Before beginning to wire the unit, ensure that all power (AC transformer and battery) is disconnected from the controller.

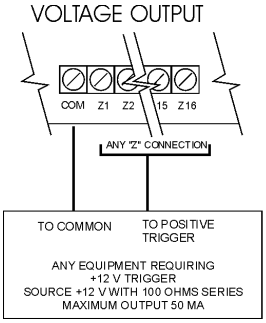
Perform the following steps to complete wiring:

1. Connect the four Combus wires to the KT-PC4216. Connect the red, black, yellow and green Combus wires to the RED, BLK, YEL and GRN terminals, respectively.
2. Complete all output wiring as illustrated below:

***Note**: Current is drawn from the combus.*



***Note**: May require a KT-PC4204 power supply module if drawing too much current from the Combus.*



3. Connect the external tamper switch, if used.

Consult the wiring diagrams for further information.

3.4. Applying Power

After all wiring is completed, apply power to the KT-300 controller. Connect the battery leads to the battery, then connect the AC transformer.

***Note**: Do not connect the power until all wiring is complete.*

4. Assigning the module

Follow the instructions below for assigning and programming your **KT-PC4216** module.

Follow these steps to assign the module(s):

1. Establish communication between the PC and the controller,
2. Remove the tamper switch wire (or only the wire if tamper switch is not used),
3. A serial number should be displayed on the screen, in the same window where is the serial number is located, you should see the type of module and on which controller it is connected,
4. From the software, select the functionality of the module and enter the serial number in the appropriate field (see your software reference manual under controller definition -- Assigning modules for more details).

***Note**: Don't forget to reconnect the tamper switch (or the wire, if there is no tamper switch).*

Terminal Connections

Module no.: _____

Date of installation: _____

KT-300 Name: _____

KT-300 SITE NAME: _____

KT-300 Serial Number: _____

COMBUS (FROM): _____

COMBUS (TO): _____

Z1: _____

Z2: _____

Z3: _____

Z4: _____

Z5: _____

Z6: _____

Z7: _____

Z8: _____

Z9: _____

Z10: _____

Z11: _____

Z12: _____

Z13: _____

Z14: _____

Z15: _____

Z16 _____

FCC & IC COMPLIANCE STATEMENT

CAUTION: Changes or modifications not expressly approved by Kantech Systems Inc. could void your authority to use this equipment.

This equipment generates and uses radio frequency energy and if not installed and used properly, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for Class B device in accordance with the specifications in Subpart "B" of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in any residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to television or radio reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient the receiving antenna
- Relocate the alarm control with respect to the receiver
- Move the alarm control away from the receiver
- Connect the alarm control into a different outlet so that alarm control and receiver are on different circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the FCC helpful: "How to Identify and Resolve Radio/Television Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402, Stock # 004-000-00345-4. This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received including interference that may cause undesired operation. This class B digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations. The KT-300 is also compliant with EN55022: 1994, amendment 1: 1995, Class B.