

1. Introduction

The **KT-MOD-REL8** is an 8-relay outputs expansion module used as general relays or elevator control outputs.

The module supports daisy chaining which can add up to 32 KT-MOD-REL8 modules for a total of 256 external relays per KT-400 controller. You can mix relays and outputs in the same SPI group, up to 256 outputs.

Note 1: The KT-400 SPI port maximum current draw, when the 12V AUX terminals are not used, is 500 mA.

Note 2: External power supply (12 VDC, 2 Amps) is required when the total current draw exceeds 500mA on the SPI Port.

Note 3: There are already 4 relays available on the KT-400. Make sure to check the relays number assignments to prevent redundancy unless it has been planned on purpose.

2. Specifications

- Maximum Current Draw: up to 330 mA per module
- Each relay supports the 2 conditions, NO (Normally Open) and NC (Normally Closed), the C (Common) terminal is +12 VDC
- Each relay has its own LED to indicate status, ON for active
- Eight (8) programmable relay contacts rated 30 VDC, 3 A
- Can be used for elevator control
- Can be mixed with output module KT-MOD-OUT16 in the same group
- Operating Temperature: -10C to +55C, 0C to 49C for UL Listed product
- Maximum Humidity: 93% (non condensing), 0 to 85% (non condensing) for UL Listed product
- IP Class 3X, IK Rating 04 (when mounted in a Kantech cabinet). IP and IK rating not evaluated by Underwriters Laboratories.

3. Installing the KT-MOD-REL8 Module

3.1. Unpacking

The **KT-MOD-REL8** package includes the following parts:

- One (1) module - 14 cm x 8 cm (5.7 in x 3.25 in)
- One (1) SPI cable with 1 SPI connector 41 cm (16 in)

- Four (4) plastic standoffs
- Two (2) installation sheets, English and French

3.2. Mounting

The **KT-MOD-REL8** can be installed inside a compatible cabinet (KT-MOD-CAB or KT-400) or mounted in a dry and secure location at less than 1 m (3 ft) from the KT-400.

Perform the following steps to mount the unit:

- Press the four (4) plastic standoffs through the mounting holes of the cabinet.
- 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.
- Press the module into the plastic standoffs to secure the module to the cabinet.

3.3. Installation and Wiring

Before beginning to wire the unit, ensure that all power (AC transformer and battery) is disconnected from the KT-400.

Perform the following steps to complete wiring:

- Connect the 6-pin SPI connector to:
 - the KT-400 SPI port, or
 - the SPI OUT of the previous output module (**KT-MOD-REL8** and **KT-MOD-OUT16** only), or
 - the SPI EXP of the 1st input module **KT-MOD-INP16** connected to the KT-400 SPI port.
- Connect the six SPI wires (blue (BLU), white (WHT), green (GRN), yellow (YEL), black (BLK) and red (RED)) to the SPI IN (TB1) terminals.
- Connect the 6-pin SPI connector from the SPI OUT to the next output module (**KT-MOD-REL8** and **KT-MOD-OUT16** only).
- Complete all output wiring.

3.4. Check the power jumper **JP1** position. Put it on **EXT** if you need external power or **INT** if no external power is required.

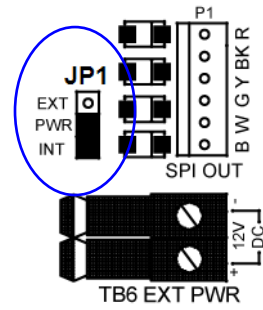
3.5. Applying Power

After all the wiring is completed, connect the 16 VAC to the KT-400. Connect the battery leads to the battery, and then apply power to the AC transformer.

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

This module provides access point control (5) as per EN50133-1.

Certified by Telefication under the requirements of EN50133-1 and EN50130-5 Class II.



Terminal Connections

Module no.: _____

Date of installation: _____

KT-400 Name: _____

KT-400 SITE NAME: _____

KT-400 Serial Number: _____

AUX: _____

SPI BUS (FROM): _____

SPI BUS (TO): _____

☐ NO RLY1: _____ ☐ NO RLY5: _____

☐ NC ☐ NC

☐ NO RLY2: _____ ☐ NO RLY6: _____

☐ NC ☐ NC

☐ NO RLY3: _____ ☐ NO RLY7: _____

☐ NC ☐ NC

☐ NO RLY4: _____ ☐ NO RLY8: _____

☐ NC ☐ NC

FCC COMPLIANCE STATEMENT

CAUTION: Changes or modifications not expressly approved by Kantech 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 complies with Canadian ICES-003.

The KT-MOD-REL8 is also compliant with EN55022: Class B.

UL 294 Performance Levels

Destructive Attack: I Line Security: I

Endurance: IV Standby Power: I*

*Standby Power Level IV when powered by KT-400.



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